

Product Catalog



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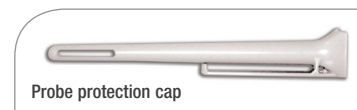
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Product Specifications

FlashCheck Lollipop Min/Max Thermometer

Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±2°F (-40°F to -4°F); ±1°C (-40°C to -20°C) ±1°F (-4°F to 131°F); ±0.5°C (-20°C to 55°C) ±2°F (131°F to 311°F); ±1°C (55°C to 155°C) or ±1%, whichever is greatest
Sensor	Thermistor
Display Resolution	0.1°F /°C
Display Reading Update	1 second
Display Window Size	0.77 in W x 0.37 in H (19.5 mm W x 9.5 mm H)
Calibration	Factory calibrated to NIST traceable standards
Battery	Button Cell Alkaline
Body Casing	ABS plastic
Probe Dimensions	4.13" L x 0.14" Dia, Reduced tip 0.1" Dia (105 mm L x 3.56 mm Dia, Reduced tip 2.5 mm Dia)
Weight	1.25 oz. (35.4 gm)
Waterproof Rating	IP65
Certification	CE, RoHS, NIST traceable, manufacturers certificate of compliance available



Model 11040

- °F/°C selectable
- Min/Max memory stores lowest/highest readings
- Automatic calibration feature
- IP65 Waterproof
- Reduced Tip Probe
- Complies with FDA Food Code 4-203.11

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0183 15G1



Product Specifications

FlashCheck Digital Lollipop Min/Max Thermometer

Measurement Range	-58°F to 392°F (-50°C to 200°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (-4°F to 302°F), ±0.5°C (-20°C to 150°C) or ±1% whichever is greatest
Sensor	Thermistor
Display Resolution	0.1°F/ °C
Display Reading Update	1 second
Display Window Size	.77 in W x .37 in H (19.5 mm W x 9.5 mm H)
Calibration	N.I.S.T. Calibration
Battery	Button Cell Alkaline
Body Casing	ABS plastic
Probe Dimensions	7.87 in. (L) x 1.14 in. (Dia) 200 mm (L) x 3.5 mm (Dia)
Weight	1.25 oz. (35.4 gm)
Waterproof Rating	IP67
Certification	CE Mark, RoHS



Model 11047

- °F/°C selectable
- 200 mm (~8") Sharp Tip probe
- Min/Max memory stores lowest/highest readings until reset
- Probe cover with pocket clip on back
- Waterproof housing, IP67 rated

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SS0142 15D1



Product Specifications

FlashCheck. Certified Waterproof Digital Lollipop Min/Max Thermometer

Measurement Range	-58°F to 392°F (-50°C to 200°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (-4°F to 302°F), ±0.5°C (-20°C to 150°C) or ±1% whichever is greatest
Sensor	Thermistor
Display Resolution	0.1°F/ °C
Display Reading Update	1 second
Display Window Size	.77 in W x .37 in H (19.5 mm W x 9.5 mm H)
Calibration	N.I.S.T. Calibration
Battery	Button Cell Alkaline
Body Casing	ABS plastic
Probe Dimensions	7.87 in. (L) x 1.14 in. (Dia) 200 mm (L) x 3.5 mm (Dia)
Weight	1.25 oz. (35.4 gm)
Waterproof Rating	IP67
Certification	CE Mark, Traceable to NIST, RoHS



Model 11048

- °F/°C selectable
- 200 mm (~8") Sharp Tip probe
- Min/Max memory stores lowest/highest readings until reset
- NIST traceable Calibration Certificate included
- Probe cover with pocket clip on back
- Waterproof housing, IP67 rated

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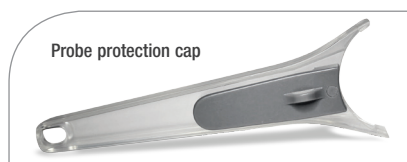
SS0215 16C1



Product Specifications

FlashCheck. Certified Waterproof Lollipop Min/Max Thermometer

Measurement Range	-58°F to 392°F (-50°C to 200°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (-4°F to 302°F) ±0.5°C (-20°C to 150°C) or ±1%, whichever is greatest
Sensor	Thermistor
Display Resolution	0.1°F/ °C
Display Reading Update	1 second
Display Window Size	0.77 in W x 0.37 in H (19.5 mm W x 9.5 mm H)
Calibration	N.I.S.T. Traceable Calibration Certificate
Battery	Button Cell Alkaline
Body Casing	ABS plastic
Probe Dimensions	4.13 in. (L) x 0.14 in. (Dia.) 105 mm (L) x 3.5 mm (Dia.)
Weight	1.4 oz. (40 gm)
Waterproof Rating	IP67
Certification	CE Mark, RoHS
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Model 11049

- °F /°C selectable
- Min/Max memory stores lowest/highest readings until reset
- NIST traceable Calibration Certificate included
- Probe cover with pocket clip
- Waterproof housing, IP67 rated

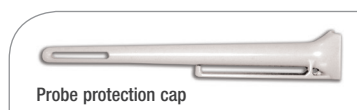
SS0188 15D1



Product Specifications

FlashCheck. Waterproof Lollipop Min/Max Thermometer

Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (14°F to 194°F), ±0.5°C (-10°C to 90°C) or ±1% whichever is greatest
Sensor	Thermistor
Display Resolution	0.1°F/°C
Display Reading Update	1 second
Display Window Size	1.3 in W x 0.9 in H (32.9 mm W x 22.9 mm H)
Calibration	Auto calibration feature
Battery	Button Cell Alkaline
Body Casing	ABS plastic
Probe Length	4.13 in. (105 mm)
Probe Diameter	0.14 in. (3.56 mm), reduced tip 0.1 in (2.5mm)
Weight	1.3 oz (37.6g)
Waterproof Rating	IP65
Factory Calibration	NIST traceable calibration certified
Compliance Certificate	Manufacturers certificate of compliance available from DeltaTrak, NIST Traceable, NSF, CE



Model 11050

- NSF certified
- °F/°C selectable
- Min/Max memory stores lowest/highest readings
- Automatic calibration feature
- IP65 Waterproof housing
- Small-diameter probe ideal for measuring temperature of "thin mass" food such as meat patties and chicken/fish fillets (FDA Food Code 4-302.12 (B)).

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SS0008 15G1



Product Specifications

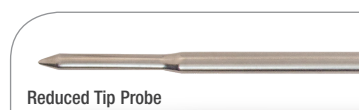
FlashCheck Industrial Digital Probe Thermometer

Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (14°F to 194°F), ±0.5°C (-10°C to 90°C) or ±1% whichever is greatest
Response Time	Less than 6 seconds between 32°F to 77°F (0°C to 25°C)
Sensor	Thermistor
Display Resolution	0.1°F/°C
Display Reading Update	Every 2 Seconds
Display Window Size	1.5in W x 0.5in H (38 mm W x 12.7 mm H)
Calibration	Automatic Calibration button
Battery	Button cell alkaline
Body Casing	ABS Plastic
Probe Length	3.9in (99mm)
Probe Diameter	0.14 in (3.56 mm), reduced tip 0.1in (2.5mm)
Waterproof Rating	IP56
Factory Calibration	NIST traceable calibration
Compliance Certificate	Manufacturer's Certificate of Compliance, NIST traceable, NSF, CE

One piece ABS unibody and O-Ring sealed construction for superior strength and durability.

Smooth membrane surface and Touch-Pad™ efficiently seal against water, dirt, grease, and other intrusions.

Rotating pocket Clip (backside)



Model 11061

- °F/°C selectable
- Automatic calibration feature
- Reduced tip probe provides less than 6 second response time
- Magnetic probe cover attaches thermometer to air vents
- Sealed unibody construction
- IP56 waterproof and grease resistant
- Probe fits standard Pete's plug self-closing valve
- Velcro strap secures thermometer to refrigerant pipes
- Automatic shut off saves battery
- High visibility yellow casing

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

Patent No.
5,709,476
5,801,968



SS0010 1511



Product Specifications

FlashCheck Jumbo Display Auto-Cal Digital Probe Lab Thermometer

Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (14°F to 194°F), ±0.5°C (-10°C to 90°C) or ±1% whichever is greatest
Response Time	Less than 6 seconds between 32°F to 77°F (0°C to 25°C)
Sensor	Thermistor
Display Resolution	0.1°F/°C
Display Reading Update	Every 2 seconds
Display Window Size	1.5 in W x 0.5 in H (38mm W x 12.7mm H)
Calibration	Automatic Calibration button
Battery	Button cell alkaline
Body Casing	ABS Plastic
Probe Length	3.9 in (99mm)
Probe Diameter	0.14 in (3.56mm), reduced blunt tip 0.1 in (2.5mm)
Waterproof Rating	IP56
Factory Calibration	NIST traceable calibration
Compliance Certificate	Manufacturer's Certificate of Compliance, NIST traceable, NSF, CE

One piece ABS unibody and O-Ring sealed construction for superior strength and durability.

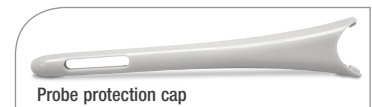
Smooth membrane surface and Touch-Pad™ efficiently seal against water, dirt, grease, and other intrusions.



Rotating pocket Clip (backside)



Blunt Probe



Probe protection cap

Model 11062

- °F/°C selectable
- Automatic calibration
- Blunt, rounded tip ideal for scientific, laboratory and veterinary use
- Reduced tip probe provides less than 6 second response time
- Highly visible dual scale jumbo LCD display
- Sealed unibody construction
- IP56 waterproof, sanitizable, dirt and grease resistant
- Automatic shut off saves battery

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

Patent No.
5,709,476
5,801,968



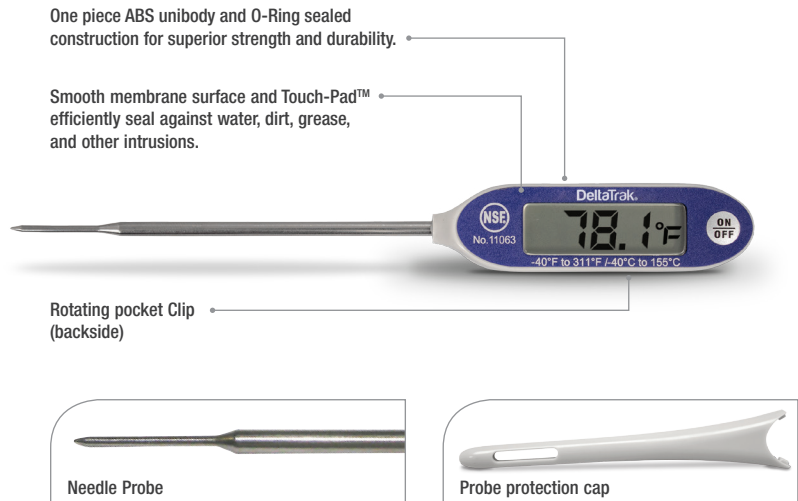
SS0011 151I



Product Specifications

FlashCheck Jumbo Display Auto-Cal Needle Probe Thermometer

Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (14°F to 194°F), ±0.5°C (-10°C to 90°C) or ±1% whichever is greatest
Response Time	Less than 6 seconds between 32°F to 77°F (0°C to 25°C)
Sensor	Thermistor
Display Resolution	0.1°F/°C
Display Reading Update	Every 2 seconds
Display Window Size	1.5 in W x 0.5 in H (38mm W x 12.7mm H)
Calibration	Automatic Calibration button
Battery	Button cell alkaline
Body Casing	ABS Plastic
Probe Length	3.9 in (99mm)
Probe Diameter	0.14 in (3.56mm), 14 gauge needle tip 0.067 in (1.7mm)
Waterproof Rating	IP56
Factory Calibration	NIST traceable calibration
Compliance Certificate	Manufacturer's Certificate of Compliance, NIST traceable, NSF, CE, RoHS



Model 11063

- °F/°C selectable
- Automatic calibration feature
- Needle tip ideal for measuring temperature of thin mass foods such as meat patties, chicken and fish fillets, per FDA Food Code 4-302.12 (B)
- Small diameter probe provides less than 6 second response time
- Highly visible dual scale jumbo LCD display
- Sealed unibody construction
- IP56 waterproof, sanitizable, dirt and grease resistant
- Automatic shut off saves battery

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5,801,968



SS0012 1511



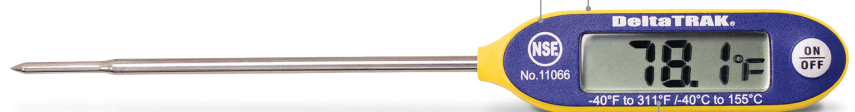
Product Specifications

FlashCheck Jumbo Display Reduced Tip Probe Thermometer

Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (14°F to 194°F), ±0.5°C (-10°C to 90°C) or ±1% whichever is greatest
Response Time	Less than 6 seconds between 32°F to 77°F (0°C to 25°C)
Sensor	Thermistor
Display Resolution	0.1°F / °C
Display Reading Update	Every 2 seconds
Display Window Size	1.5in W x 0.5in H (38mm W x 12.7mm H)
Calibration	Automatic calibration button
Battery	Button cell alkaline
Body Casing	ABS Plastic
Probe Length	3.9in (99mm)
Probe Diameter	0.14in (3.56mm), reduced tip 0.1in (2.5mm)
Waterproof Rating	IP56
Factory Calibration	NIST traceable calibration
Certifications & Regulatory Compliance	Manufacturer's Certificate of Compliance, NIST traceable, NSF, CE, RoHS

One piece ABS unibody and O-Ring sealed construction for superior strength and durability.

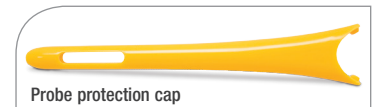
Smooth membrane surface and Touch-Pad™ efficiently seal against water, dirt, grease, and other intrusions.



Pocket Clip (backside)



Reduced Tip Probe



Probe protection cap

Model 11066

- °F/°C selectable
- Reduced tip ideal for measuring temperature of thin mass foods such as meat patties, chicken and fish fillets, per FDA Food Code 4-302.12 (B)
- Small diameter probe provides less than 6 second response time
- Highly visible dual scale jumbo LCD display
- Sealed unibody construction
- IP56 waterproof, sanitizable, dirt and grease resistant
- Automatic shut off saves battery

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Patent No.
5,709,476
5,801,968



SS0125 16D1



Product Specifications

Min/Max Alarm Digital Thermometer

Temperature Range	Internal Sensor: 14°F to 122°F (-10°C to 50°C) External Sensor: -58°F to 158°F (-50°C to 70°C)
Accuracy	±1.8°F (±1.0°C)
Resolution	0.1°F (0.1°C)
Display Reading Update	10 seconds
Sensor	Thermistor
External Sensor Cable Length	10 ft (3m)
Display Window Size	1.9 in. (W) x .8 in. (H) (48 mm x 21 mm)
Product Size	2.9 in. (W) x 2 in. (H) x 6 in. (D) (73 mm x 52 mm x 15 mm)
Weight	2.5 oz. (70 g)
Body Casing	Polycarbonate and ABS plastic
Probe	Stainless steel probe, .875 in. (L) (17.8 mm)
Battery (included)	1.5 volt AAA/ UM4 or equivalent
Certification / Calibration	CE mark, N.I.S.T. traceable by lot
* Extreme temperatures within the display range cannot be verified for accuracy.	



Model 12207

- High/low temperature alarm setting
- Internal/External sensor switchable
- Display backlight
- °C / °F selectable
- Min/Max memory for internal or external sensor - lowest & highest reading stored for instant recall.
- Memory function holds up to 99 points of temperature data

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0013 13K1



Product Specifications

FlashCheck. Waterproof Dishwasher Thermometer Kit

Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±1°F (14°F to 194°F), ±0.5°C (-10°C to 90°C) or ±1% whichever is greatest
Sensor	Thermistor
Display Resolution	0.1°F /°C
Display Reading Update	1 second
Display Window Size	0.77 in W x 0.37 in H (19.5 mm W x 9.5 mm H)
Calibration	Auto calibration feature
Battery	Button Cell Alkaline
Body Casing	ABS plastic
Probe Dimensions	0.14 in. (Dia.) x 4.13 in. (L) (3.56 mm x 105 mm)
Thermometer Weight	1.3 oz (37.6g)
Waterproof Rating	IP65
Certification	Manufacturers certificate of compliance available from DeltaTrak, NIST traceable, NSF, CE



Model 12214

- NSF certified thermometer
- °F/°C selectable
- Min/Max memory stores lowest/highest readings
- Automatic calibration feature
- IP65 waterproof housing
- Waterproof plastic protective heat shield with velcro strap
- Verifies compliance with FDA food code 4-703.11(B), for commercial dishwashers

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0016 15G1



Product Specifications

Jumbo Display Thermo-Hygrometer

Temperature Range	Internal: 32°F to 122°F (0°C to 50°C) External Probe: -58°F to 158°F (-50°C to 70°C)
Humidity Range	Internal: 20% to 90%
Temperature Accuracy(Int. & Ext.)	±1.8°F (1°C) from -40°F to 158°F (-40°C to 70°C)
Humidity Accuracy(Internal)	±5% R.H. from 35% to 85% R.H. at 77°F (25°C)
External Temperature Sensor	Cable length: 10 ft/3meters; probe: 30mm (L) x 5mm (dia.) tip
Resolution	R.H.1%, temperature 0.1°F /0.1°C
Display Reading Update	10 Seconds
Display Window Size	3.11 in. (W) x 2.79 in. (H) (79 mm x 66 mm)
Character Height within Display	1.06 in. (17mm)
Product Size	3.85 in. (W) x 4.33 in. (H) x .82 in. (D) (98 mm x 110 mm x 21 mm)
Weight	2.4 oz. (68 g)
Body Casing	Polycarbonate and ABS plastic
Sensor Type	Temperature: thermistor Humidity: electronic capacitance polymer film
Battery	AAA (quantity 2 each)
Freeze Alarm Setting	If set, alarm will sound when external temperature is ≤ 32°F (0°C)
Waterproof Rating	IP67 (Probe Only)
Certification/ Calibration	CE mark/ N.I.S.T. traceable



Model 13307

- Freeze alert
- °C/°F selectable
- Internal/ external
- temperature sensors
- Internal humidity sensor
- Jumbo display for temperature and humidity
- Min/Max memory - lowest and highest readings stored for instant recall
- Low Battery Indication

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0019 13K1



Product Specifications

Pocket-Type Thermo-Hygrometer

	Humidity	Temperature
Measurement Range	20-90% RH in 15-50°C/59-122°F range	0-50°C/32-122°F
	25-90% RH in 5-50°C/41-122°F range	
	30-90% RH in 0-50°C/32-122°F range	
Display Accuracy	±5% or ±3% (in 30-90% range only)	±1°C/±2°F
Display Resolution	1%	1°C/2°F
Display Reading Update	5 seconds	
Battery	1.5 volt, type AAA or equivalent x1 piece	
Display Size	52mm(W) x 13mm(H)/2.05 in. (W) x 0.51 in. (H)	
Product Size	138mm (W) x 23mm(H) x 20mm(D)/5.43 in.(W) x 0.91 in.(H) x 0.79 in.(D)	
Product Weight	35.9g/1.27 oz	



Model 13308

- Dual display for humidity & temperature
- Maximum & minimum reading memory
- °C/°F selectable
- Fast reading update
- Large and clear display
- Pen shape design with a pocket clip attached to back side



SS0020 16C1



Product Specifications

FlashCheck. Folding Probe Electronic Thermometer

Temperature Range	-40°F to 293°F (-40°C to 145°C)
Accuracy	1.0°F from $\pm 32^\circ\text{F}$ + 185°F ($\pm 0.5^\circ\text{C}$ from 0°C to +85°C)
Display Resolution	0.1°F (0.1°C)
Display Update	2.7 seconds
Water Resistant Rating	IP67, NEMA 6
Unit Weight	4.5 oz
Probe	Stainless steel, 4.4" (111mm)
Tapered Tip	.75" (19.5mm)
Body	Polycarbonate & ABS with silicon overmold
Calibration	Factory calibrated to NIST traceable standards. Post sale calibration and certificates available from DeltaTrak.
Response Time	Updates every 6 seconds.



Model 15000

- Check min/max dishwasher temperature
- Reduced probe tip .09" (2.3mm)
- Completely waterproof
- 6 second response time
- Rubber molded case can withstand 6' drop
- Precision accuracy, can be field calibrated

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0023 16C1



Product Specifications

ThermoTrace. Waterproof Infrared Thermometer

Field of View	D:S=15:1 At D=1 meter (39.4"); S=66.7mm (2.6")
Temperature Range	32°F to 932°F (0°C to 500°C)
Display Range*	14°F to 1202°F (-10°C to 650°C)
Environmental Operating Range	14°F to 122°F (-10°C to 50°C)
Response Time	Less than 1 second
Accuracy	±3.6°F (±2°C) from 32°F to 392° (0°C to 200°C) otherwise 1% of reading
Environmental Humidity Range	0% to 95% RH (without dew condensation)
Display Hold Time	15 seconds
Scale	°F/ °C selectable
Repeatability	±2°F (1°C) of reading value
Body Casing	ABS plastic
Battery	9v alkaline (12 hour life)
Emissivity	Dark (.95)/Bright (.70) switchable
Display Resolution	1°F (1°C)
Sighting Method	Offset laser, Class 2, 670nm
Weight	7.05oz. (200g) including battery



Model 15006

- Instant non-contact surface temperature measurement.
- Useful with moving products or for hard to reach places.
- Completely waterproof (IP67 compliant)
- Two measuring modes: normal and continuous
- Alarm settings for high and low temperature limits
- Memory function holds up to 99 points of temperature data

* Extreme temperatures within the display range cannot be verified for accuracy



SS0025 16C2



Product Specifications

ThermoTrace[®] Waterproof Infrared Thermometer -40°

Field of View	D:S=15:1 At D=1 meter(39.4"); S=66.7mm(2.6"); minimum spot size = 12.7mm (0.5 in.)
Temperature Measurement Range	-22°F to 392°F (-30°C to 200°C)
Display Range*	-40°F to 428°F (-40°C to 220°C)
Response Time	Less than 1 second
Accuracy	±1°F at 75.2°F (±0.5°C at 24°C) 32°F to 212°F (±1°C from 0°C to 100°C)
Environmental Humidity Range	0 to 95% RH (without dew condensation)
Display Hold Time	15 seconds
Scale	°F/ °C selectable
Repeatability	±2°F (1°C) of reading value
Body Casing	ABS plastic
Battery	9v alkaline (15 hour life)
Emissivity	Hot (.95); Cold (.85) switchable
Display Resolution	0.1°F (0.1°C)
Sighting Method	Offset laser, Class 2, 670nm
Weight	7.05oz. (200g) including battery



Model 15006-40

- Instant non-contact surface temperature measurement
- Quickly scan numerous food temperatures
- Completely waterproof (IP67 compliant) for sanitation requirements
- Two measuring modes: normal and continuous
- Alarm settings for high and low temperature limits
- Memory function holds up to 99 points of temperature data

* Extreme temperatures within the display range cannot be verified for accuracy



SS0024 16C1



Product Specifications

ThermoTrace Infrared Laser Thermometer

Field of View	8:1 (85% energy collecting)
Measurement Range	-4°F to 626°F (-20°C to 330°C)
Display Range*	-67°F to 662°F (-55°C to 350°C)
Operating Range	32°F-122°F (0°C-50°C)
Accuracy	From -4°F to 32°F(-20°C to 0°C) $\pm 4^\circ\text{F}$ (2°C); From 32°F to 626°F (-0°C to 330°C) $\pm 4^\circ\text{F}$ (2°C) or 2% of reading, whichever is greater
Response Time	Less than 1 second
Display Hold Time	15 seconds
Display Resolution	0.1°F/0.1°C (switchable)
Emissivity Range	Factory set at 0.95 - adjustable 0.05 to 1.00 emissivity
Battery & Battery Life	AAA x 2pcs, 30 to 40 hour, auto power off after 15 seconds
Sighting Method	Non-coaxial laser
Weight	108 grams (3.8 oz) including batteries
Dimensions	1.02 in. x 1.77 in.x 5.04 in. (26mm x 45mm x 128mm)
IP Rating	IP54



Model 15036

- Waterproof
- Laser sighting
- Lightweight, sleek and compact
- Highly accurate
- Instant non-contact surface temperature measurement
- Useful with moving objects or for hard to reach places

* Extreme temperatures within the display range cannot be verified for accuracy



SS0027 16C1



Product Specifications

ThermoTrace Infrared Gun Thermometer

Measurement Range	-76°F to 932°F (-60°C to 500°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	±4°F from -76°F to 14°F (±2°C from -60 to -10°C) ±2°F from 14°F to 95°F (±1°C from -10 to 35°C) ±4°F from 95°F to 932°F (±2°C from 35 to 500°C) or 2% of reading whichever is greater
Emissivity	0.95 fixed
Display Resolution (-9.9~199.9°C)	0.1°F / 0.1°C, otherwise 1°F / 1°C
Response Time (90%)	1 second
Field of View	12:1 Distance to spot ratio
Battery	AAA x 2pcs / 14-18 hours continuous use
Auto Shut Off	After 15 seconds idle
Dimensions	175.2 x 39.0x71.9mm (6.9x1.54 x 2.83")
Weight	179 grams (6.31oz) including batteries



Model 15041

- 12:1 Field of View
- Emissivity fixed 0.95
- IR Sensor: Instant, non-contact, surface temperature measurement
- Dual Scale °C / °F switchable
- Automatic data hold
- Jumbo LCD display - Bright large back-lit
- National Lab Standard Traceable

* Extreme temperatures within the display range cannot be verified for accuracy



SS0117 16C1



Product Specifications

ThermoTrace On-Line Infrared Thermometer

	15201	15202	15203	15204
Area Size	Ø6 / 200mm		Ø30 / 1000mm	
Analog Output	4-20mA	1mV/°C	4-20mA	1mV/°C
Temperature Range	32°F to 932°F (0°C to 500°C), display -4°F to 968 °F (-20°C to 520°C)			
Optics/Spectral Response	Silicon lens/Thermopile / 8 to 14 µm			
Accuracy	±1% of reading value or ±2°C, ± 1 digit, whichever is larger			
Display Resolution	1°F/ °C selectable			
Output Resolution	0.2°F/°C			
Response Speed	Less than 1 second (100ms/90%)			
Sighting Method	Coaxial laser marker			
Repeatability	±2°F (±1°C) of reading value			
Emissivity	0.10 to 1.20 (0.01/1step)			
Environmental Humidity	35 to 85% RH (without dew condensation)			
Ambient Temperature	32°F to 122°F (0°C to 50°C)			
Waterproof Rating	IP65			
Power Supply	DC12 to 24V±10% / MAX 150mA			
Storage Conditions	14°F to 140°F (-10 to 60°C)			
Vibration Resistance	3G (20 to 50Hz, according to JIS C0 911)			
Weight	12.35 oz. (350g)			
Optional Accessory	Air purge collar (order Part No. 15205)			



Model 15201

FOV: 6/200mm

Model 15202

FOV: 30/1000mm

Model 15203

FOV: 6/200mm

Model 15204

FOV: 30/1000mm

- Instant non-contact surface temperature measurement
- State-of-the-art infrared technology
- Coaxial Laser
- Useful with moving products or for hard to reach places



SS0030 16C1



Product Specifications

FlashCheck Digital Thermocouple Thermometer Kit — (K Type Probes)

Measurement Range (probe)	-76.0°F to 1652°F (-60°C to 900°C) dependent on probe attached
Operating Range (base unit)	32°F to 122°F (0°C to 50°C)
Display Resolution	0.1°F/°C 33.6 to 391.8°F (-9.9 to 199.9°C), 1.0°F/°C above 391.9°F(200°C)
Accuracy	±1% of reading or 1.8°F (1°C) whichever is greater, from -4°F to 284°F (-20°C to 140°C). Otherwise 2% of reading.
Battery/Life	CR2032 lithium cell/100 hours continuous use
Body Dimensions (Base Unit)	3 x 1.7 x 0.8 in. (78 x 42 x 20 mm)
Weight	1.42 oz. (40.15 grams) including battery
Certification	CE Mark, NSF
IP Rating (with probe attached)	IP54 Splash Proof
Weight (Base Unit)	0.17 lbs (77g)



Model 25002

- Ideal for food service and quality control inspectors
- NSF Certified
- Switchable °F/°C
- Five interchangeable K type probes available
- Large LCD Display
- Splash Proof - IP54

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Product Specifications

FlashCheck Digital Thermocouple Thermometer Kit — (K Type Probes)



Model 25004

Surface Probe

7.5" length, 190mm
-76°F to 752°F (-60°C to 400°C)



Model 25005

Air/Gas Probe

5.7" length, 144mm
-76°F to 1652°F (-60°C to 900°C)



Model 25006

Penetration Probe

5.9" length, 149.86mm
-76°F to 1112°F (-60°C to 600°C)



Model 25007

Reduced Tip Probe

4" length, 101.6mm
-76°F to 752°F (-60°C to 400°C)



Model 25008

Needle Probe

4.4" length, 112mm
-76°F to 1112°F (-60°C to 600°C)

Kit includes 25003 base unit, carrying case, 36 inch extension cable and five interchangeable probes
Thermometer and probes are also available individually.

User should choose proper probe types for different applications. Make sure the target to be measured will not exceed the temperature range of the probe to avoid permanent damage to the thermocouple probe.

EMC/RFI: Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.



Model 25003

Base Unit



Model 25013

Extension Cable

SS0083 pg2 of 2 15D1



Product Specifications

FlashCheck[®] Ruggy Thermocouple Thermometer Kit — (K Type Probes)

Measurement Range (probe)	-76°F to 1112°F (-60°C to 600°C), dependent on probe
Operating Range (base unit)	32°F to 122°F (0°C to 50°C)
Display Resolution	0.1°F/°C 33.6 to 391.8°F (-9.9 to 199.9°C), 1.0°F/°C above 391.9°F(200°C)
Accuracy	±1% of reading or 1.8°F (1°C) whichever is greater, from -4°F to 284°F (-20°C to 140°C). Otherwise 2% of reading
Battery/Life	CR2032 lithium cell/100 hours continuous use
Body Dimensions	3 x 1.7 x 0.8 in. (78 x 42 x 20 mm)
Weight	1.42 oz. (40.15 grams) including battery
Certification	CE Mark, NSF
IP Rating	IP54 Splash Proof



Model 25050

w/ Reduced Tip Probe



Model 25052

w/ Needle Probe

- Sturdy protective rubber enclosure
- Ideal for food service and quality control inspectors
- NSF Certified
- Switchable °F/°C
- Three interchangeable K type probes available
- Large LCD Display
- IP54 Splash Proof

Kit includes 25003 base unit, boot and 1 probe. Extra probes sold separately.

Thermometer and probes are also available individually.



Model 25051

w/ Surface Probe

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Product Specifications

FlashCheck Ruggy K Type Probes



Model 25054

Reduced Tip Probe

(4" long, 101.6mm, tip dia. 2.33mm w/39.56mm cable)
-76°F to 752°F (-60°C to 400°C)



Model 25055

Surface Probe

(7.5" long, 190mm w/39.56mm cable)
-76°F to 752°F (-60°C to 400°C)



Model 25056

Needle Probe

(4.4" long, 112mm, tip dia. 1.6mm w/39.56mm cable)
76°F to 752°F (-60°C to 400°C)



Model 25003

Base Unit



Model 25053

Rubber Enclosure

EMC/RFI: Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

Product Specifications

Heat/Cool Automated Cooking and Cool Down Thermometer

Measurement Range	32°F to 338°F (0°C to 170°C)
Operating Range (base unit)	-22°F to 122°F (-30°C to 50°C)
Accuracy	0°F to 275°F $\pm 1.8^\circ\text{F}$ (0°C to 135°C $\pm 1.0^\circ\text{C}$) 275°F to 302°F $\pm 2.7^\circ\text{F}$ (135° to 150°C $\pm 1.5^\circ\text{C}$)
Probe	6.5" (17cm) stainless steel, reduced tip. Detachable
Probe Wire	30" (76cm) heat-resistant Teflon
Timer	Up to 23 hr 59 min. in count up or down modes
Body	ABS plastic
Unit Weight	3.8oz (107.7g)
Resolution	0.1°(F or C)
Battery	Two 1.5V button, battery life 18 months
Certification	CE, factory calibrated to NIST standards, RoHS compliant



Model 26003

- Fully automated time/temperature monitoring for food cool down
- Programmable time/temperature settings, 3 zones
- Confirms less than 6 hour total cool down time for food safety and compliance with FDA Food Code 3-501.14 (A,B)
- Audible alarm if food exceeds time in temperature danger zone
- New "Auto-Calibration" feature
- Uses ice bath reference solution
- Count down or count up timer for cooking and cooling
- Audible alarms for PASS/FAIL notification and unattended operation
- Easy to clean heat resistant Teflon® wire and waterproof probe
- HACCP Compliance tool
- Includes removable mounting cradle

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SS0087 13L1



Product Specifications

1 Inch Bimetal Dial Thermometer

Temperature Range	10°F to 220°F (12°C to 105°C)
Accuracy	±6°F from 32°F to 165°F (±3.3°C from 0°C to 74°C)
Sensor	Bimetal coil
Dial Face	1 in (25mm), magnified
Probe	5 in (127 mm) L, stainless steel
Calibration	Simple hex-nut calibration
DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system	



Model 29001

°F scale, not NSF Certified

- Ideal for milk frothing pitchers
- Magnified dial face
- Waterproof
- Shatterproof polycarbonate lens
- Stainless steel housing
- Field calibrateable
- Adjustable stainless steel pocket clip
- Probe cover can be used as handle extension



Model 29007

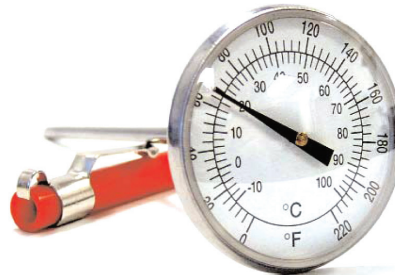
°C scale, NSF Certified



Product Specifications

Bimetal Dial Thermometer

	Model 29002	Model 29003
Temp Range	0°F to 220°F -20°C to 105°C	0°F to 220°F -20°C to 105°C
Accuracy	±6°F from 32°F to 165°F (±3.3°C from 0°C to 74°C)	±2°F(±1°C)
NSF Certified	No	Yes
Sensor	Bimetal Coil	
Dial Face	1.75 inch (44mm) dial with dual °C/°F scale	
Probe	5 inch (127mm L), stainless steel	
Calibration	Simple hex-nut calibration	
Weight	0.6oz (16gm)	



Model 29002

Dual Scale



Model 29003

NSF Certified Dual Scale

- Ideal for milk frothing pitchers
- Bi-metal coil sensor
- Waterproof
- Field calibrateable
- Plastic probe cover with pocket clip
- Red target range indication (29003)

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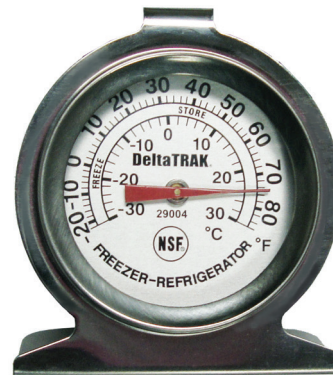
SS0089 1511



Product Specifications

Freezer-Refrigerator Thermometer

Temperature Range	-20°F to 86°F -30°C to 30°C
Temperature Accuracy	±2°F (±1°C)
Dimensions	2 inch/5 cm diameter
Housing Material	Stainless steel construction
NSF Certified	Yes



Model 29004

Applications:

The bi-metal design uses a coiled element fixed at one end and is attached to the pointer. As the temperature increases, the pointer will be rotated by the coiled bi-metal element indicating the correct temperature. Used to assure your refrigerator and freezer are at the desired temperature to keep food fresh.

- Durable, heavy-duty stainless steel
- Hang or stand
- Large, easy-to-read face

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Product Specifications

Oven Thermometer

Temperature Range	200°F to 600°F (93°C to 316°C)
Temperature Accuracy	±25°F (±12.5°C) at 25% and 75% of the temperature scale 93.3°C to 315.6°C)
Dimensions	2 inch / 5 cm diameter
Housing Material	Stainless steel construction
NSF Certified	Yes



Model 29005

Applications:

Displays oven temperature on a clearly readable scale. Made of stainless steel, with a 50mm (2") dial face and features bi-metal coil movement with a glass lens. Hangs or stands. NSF Certified.

- Stainless steel and Template glass
- Readings in Fahrenheit or Celsius
- Heat-resistant to 600°F (315°C) degrees

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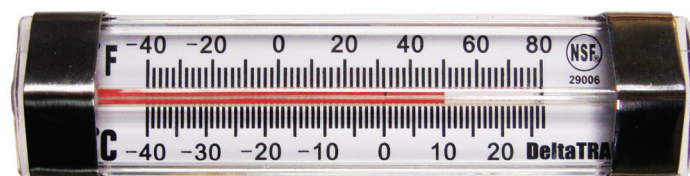


Product Specifications

Refrigerator-Freezer Thermometer

Temperature Range	-40°F to 80°F -40°C to 27°C
Temperature Accuracy	±2°F (±1°C)
Dimensions	120 mm x 30 mm
Lens Material	Polycarbonate (non-mercuric column)
NSF Certified	Yes

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Model 29006

Applications:

The numbers used to adjust the temperature on most refrigerators only raise or lower the temperature. They usually do not reflect the real temperatures in your fridge. A different measurement may be needed to monitor and maintain the true temperature. Using a refrigerator thermometer is the only way to assure your refrigerator is at the correct temperature.

40°F or lower is the recommended refrigerator temperature to slow bacterial growth and maintain food quality. On the other side, freezing occurs at 32°F. Adjust refrigerator accordingly between 32°F and 40°F to prevent unwanted freezing, such as freezing milk.

- Stainless steel
- Readings in Fahrenheit or Celsius
- Easy to read
- NSF Certified

Product Specifications

Grill Surface Thermometer

Measurement Range	100°F to 500°F (38°C to 260°C)
Accuracy	±10°F (±5.5°C)
Temperature Unit	°F /°C Dual Scale
Dimensions	56.7mm (D)x 20mm(H) (2.23" x 0.79")
Housing Material	Stainless steel

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Model 29010

DeltaTrak's Grill Surface Thermometer is the ideal device for monitoring the temperature of cooking surfaces, such as flat top grills, griddles, and barbeque grills. It can also be used on hot-holding tables and carving station warmers.

- Durable, heavy duty stainless steel
- Easy-to-read dial face
- Tabs for lifting up
- NSF certified

Product Specifications

Chart Recorder with Temperature / Humidity / Dew Point Sensor

Operating Ambient Temperature Range	+32°F to +120°F (0 to +50°C)
Storage Temperature	0°F to +120°F (-18°C to +50°C)
Primary Power	Model 14013 - 110VAC, 50/60 Hz. Plug-in Adapter Model 14014 - 220-240VAC, 50 Hz.
Optional Backup Power	8 AA alkaline batteries (Approx. 48 Hrs.)
Temperature Accuracy	+/- 2°F (+/- 1°C)
Relative Humidity Range	10-90%
Relative Humidity Accuracy	+/- 3% from 20% to 80% @ 77.0°F (25°C)
Dew Point Range	+32°F to +130°F (0°C to +50°C)
Sensor	Combined Temperature/Humidity with 6' cable (extended cable length is available)
Chart	6" Circular chart
Chart Rotation Speeds	31 Days, 7 Days, 24 Hours, 12 Hours, 6 Hours, 3 Hours or 1.5 Hours
Chart Rotation Mode	User Selectable — Single turn or continuous
Chart Speed Accuracy	+/- 1 %
Display	Alphanumeric backlit LCD, 16 Characters, 2 Lines
Temperature Alarm Range	-20°F to +120°F (-30°C to +50°C)
Alarm Delay Range	User Selectable: No Delay, 10 Min., 30 Min., 1 Hr. or 2 Hr.
Remote Alarm Connection	Normally open contacts 48V AC/ DC, 0.1 Amp., dry contacts
Mounting	Vertical or horizontal; Free standing or wall mounted
Dimensions	9.25" x 7.25" x 2.75"
Weight	2.5 lb.
Power Consumption	3.5 Watts maximum



Recorder Accessories

14597	Probe
14598	Blue Pen
14599	Red Pen

Model 14013

110v

Model 14014

220v

- Easy-to-read LCD display shows temperature and humidity
- Full function alarm
- 48-hour battery backup in case of power failure

Temperature Ranges	Chart Speeds			
	12 Hours	24 Hours	7 Days	31 Days
-20 to +120°F	14600	14601	14602	14603
-20 to +50°F	14604	14605	14606	14607
+40 to +110°F	14608	14609	14610	14611
-30 to +50°C	14612	14613	14614	14615
-30 to +10°C	14616	14617	14618	14619
+5 to +45°C	14620	14621	14622	14623

*NOTE: For 1.5 Hour, 3 Hour and 6 Hour readings, use the 12 Hour charts.

SS0022 13K1



Product Specifications

Electronic Circular Chart Temperature Recorder

Temperature Range Selectable	-40°F to 30°F / -20°F to 50°F / 50°F to 120°F -40°C to 0°C / -30°C to 10°C / 10°C to 50°C
Chart Speed Selectable	6 hours, 24 hours, 7 days, 31 days
Chart Speed Accuracy	±1%
Chart Diameter	6 inches (152.4mm)
Temperature Display	3 digit LED 0.5 inches high
Temperature Accuracy	±2°F (±1°C)
Temperature Sensor	Stainless steel probe 2 7/8" L x 1/4" D solid state integrated circuit, on 15' ft. cord
Recording Pen	INK type
Power Supply	120 VAC, 50/60 Hz., (220/240 VAC, 50 Hz. optional)
Battery Backup	Holder for 8 alkaline AA cells (batteries not included)
Battery Life	48 hours
Operating Temperature	32°F to 120°F (0°C to 49°C)
Relative Humidity	96% maximum
Dimensions	9 in x 6.875 in x 2.33 in (228mm x 174mm x 59mm)
Weight	1 lbs 12 oz. (0.7 kg.)



Model 14010

(°C) 220v

Model 14011

(°C) 110v

Model 14012

(°F) 110v

- Select single or continuous chart rotation
- Stainless steel probe allows you to measure the temperature of air, gas, liquids, powders, and semi-solids
- Back-up batteries allow continuous function (up to 48 hrs) during power failures

Recorder Accessories

14200	Extension Cable
14225	Probe
14226	Pen

Temperature Ranges

Chart Speeds

	6 Hours	24 Hours	7 Days	31 Days
-40 to +30°F	14204	14201	14207	14219
-20 to +50°F	14205	14202	14208	14220
+50 to +120°F	14206	14203	14209	14221
-40 to 0°C	14213	14210	14216	14222
-30 to +10°C	14214	14211	14217	14223
+10 to +50°C	14215	14212	14218	14224

*NOTE: For 1.5 Hour and 3 Hour readings, use the 6 Hour charts.

SS0021 16C1



Product Specifications

In-Transit Temperature Recorder

Temperature Range	Standard Model: -20°F to 100°F (-29°C to 38°C) High Range Model: 32°F to 150°F (0°C to 65°C) Low Range Model: -40°F to 80°F (-40°C to 27°C)
Accuracy	±2°F (±1°C) or better
Sensor	Bi-metal coil
Chart	Pressure sensitive, total length 36 inches (91.4cm), dual scale °F/°C
Drive	Solid state quartz motor
Time Keeping Accuracy/Clock Motor	Average ±20 seconds a month
Battery	AA Alkaline - high range models AA Carbon Zinc - standard models AA Lithium - low range model
Shelf Life	3 years
Size	5.5 in (L) x 4 in (W) x 2.5 in (H), 13.5 cm (L) x 10 cm (W) x 6.3 cm (H)
Weight	6.98oz. (198g)
Case Lot Size/Weight	20 recorders per case/ 11lbs. (4.9kg)
Certification/calibration	CE mark by T.U.V., traceable to N.I.S.T.
DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system	
PATENT NO. 4,990,940	



Models	5-Day	10-Day	20-Day	30-Day	40-Day	60-Day	90-Day
Standard Range	16000	16100	16200	16300	16350	16400	16500
High Range	16002	16102	16202	16302		16402	16502
Low Range	16004	16104	16203			16403	

- New 2 part document for ease of use
- New improved pull tab designed to make it easier to START
- Dual scale °F/°C chart
- Bilingual operation instructions
- Patented design guarantees recording trace stops at end of trip
- Lighter weight by 2 lbs per case
- Serial number on each unit for traceability



SS0031 16B4

Product Specifications

Digital Display Environmental Temperature Recorder

Low Temp Range	-20°F to 100°F (-28°C to 38°C)
High Temp Range	30°F to 150°F (0°C to 65°C)
Accuracy	Chart and Scale: $\pm 1.8^{\circ}\text{F}$ ($\pm 1.0^{\circ}\text{C}$) LCD: $\pm 1.8^{\circ}\text{F}$ (-20°C to 165°C), $\pm 1.0^{\circ}\text{C}$ (-7°C to 74°C)
LCD Display/Chart Window	1.5" x 0.5" (3.8cm x 1.3cm)/2" x 2.8" (5cm x 7.1cm)
Sensor	Bi-metal coil/thermistor
Chart	Pressure-sensitive 36-inch strip
Drive	Solid-state quartz motor
Certification	CE mark, RoHS compliant
Battery	AAA alkaline (3-year shelf life; 1 to 2 years operating life)
Weight	1.1 lb (500 grams)
Dimensions	4in. x 7in. x 2.25in. (10.2cm x 17.8cm x 5.72cm)
Casing Materials	High impact ABS



Models	3-Day	10-Day	62-Day
High Range °C	18020	18024	18030
High Range °F	18021	18025	18031

	3-Day	10-Day	31-Day
Low Range °C	18022	18026	18028
Low Range °F	18023	18027	18029

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- Highly visible LCD display and large window for viewing current and recently chart recorded temperature data
- Reusable, light weight, compact and battery operated, can be wall-mounted, or hung from a loop
- Wall-mounting bracket, screws and QC chart provided
- 12 models in °F and °C scales and two temperature ranges for 3-Day, 10-Day, 31-Day and 62-Day time intervals

SS0033 13K1



Product Specifications

T1 Two-Channel Temperature Data Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 seconds to once every 5 days



Model 20500

- Two-Channel: One for the internal temperature sensor, and one external channel for remote Sensing of temperature resistance
- Optimal thermistor temperature probe for remote measurements (ET-016) allows you to have 2 temperature channels logging simultaneously.
- Accessories: the DeltaTRAK ET series of Thermistor Probes, or any NTC thermistor probe.

Applications:

Food process verification, pharmaceutical storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

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SS0061 13K1



Product Specifications

T2 Four-Channel Temperature Data Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 seconds to once every 5 days

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Model 20501

- Four-Channel: One for the internal temperature sensor, and one for the internal RH sensor. The two remaining channels are reserved for an optional remote EH-020A probe (temp & RH probe)
- Changes in relative humidity cause the resistance of the electrically-conducting surface of the water (RH sensor) to vary. The TH2 measures the resistance and converts the reading to a percentage of RH. All RH readings are then temperature compensated by simultaneously taken temperature readings from the RH sensors companion thermistor. External changnels can also be used to measure temperature alone (with an ET thermistor probe), or can be measure resistance.
- Built-in temperature sensor (2-5 year life span), Plug-in relative humidity sensor
- Two extra channels to connect either temperature/RH probe or themistor probe
- Accessories: RH-002 replaceable RH sensor, EH-020 remote temperature and relative humidity probe, ET Thermistor temperature probes of any NTC thermistor temperature probe.

Applications:

Food Process verification, pharmaceutical storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc. An excellent choice for monitoring air quality conditions.

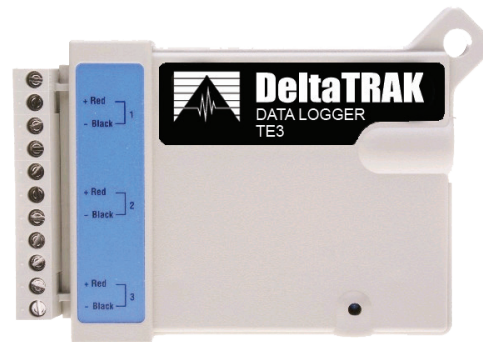
SS0062 13K1



Product Specifications

TE3 Four-Channel AC Current and Temperature Data Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 sec- onds to once every 5 days



Model 20502

- Four-Channel: One internal for ambient temperature and three for AC current (using optional current probes).
- Accurate recordings of AC current
- Use logger with up to three external current probes for recording three-phase systems or related equipment simultaneously without breaking the circuitry
- Provides safe current readings by simply clamping around the power leads.

Applications:

Monitoring air conditioning or mechanical equipment; determining electrical consumption, troubleshooting production processes; tracking environmental conditions; checking out energy management strategies; obtaining equipment load profiles; confirming control sequences; Monitoring 3-phase current, startup or long term load analysis, Demand Side Management (DSM), monitoring mechanical systems, electric motor maintenance scheduling, etc.

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SS0063 13K1



Product Specifications

PT3 Three-Channel Pulse Temperature Data Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 seconds to once every 5 days



Model 20503

- Three-Channel: One internal temperature sensor and two external inputs for pulse signals or dry switch contact closures)
- Versatile data logger designed for easy counting and recording of switch contact closures voltage pulses. It has two input channels each with three selectable frequency ranges.
- Ranges: 32 pulses/second; 64 pulses/second; 128 pulses/second; Minimum pulse width: 4 milliseconds
- Switch Contact Closure Input: Input type: Uncommitted switch or relay contacts. Logic Inputs: Logic type: Active logic signals. Input voltage: Low = 0 to 0.5 volts (DC). Input Impedance: 750 K ohms.

Applications:

Monitoring flow conditions, energy use, wind speed, RPM, and environmental conditions; Food process verification, pharmaceutical and/or laboratory storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

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SS0064 13K1



Product Specifications

PTH4 Five-Channel Pressure Temperature and Relative Humidity Data Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 seconds to once every 5 days



Model 20504

- **Five-Channel:** One internal for ambient temperature, one for optional internal RH sensor, one for optional pressure sensor, and two for optional remote RH and temperature probe
- Designed for easy monitoring and troubleshooting of pneumatic control and low-pressure duct systems. Works with optional plug-in pressure modules. Also monitors relative humidity as well as remote temperature and humidity.
- **Accessories:** Pressure modules, RH-002 sensor, Eh-020 temperature/RH probe, any ET series Temperature Probes (thermistors).
- **Ordering Guide:** order one or more pressure module. Five different interchangeable ranges available.

Applications:

Performance tracking of pneumatic-controlled valves, dampers, thermostats, humidistats, switches, and compressors; checking energy management and control strategies; monitoring sensitive shipments, etc.

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SS0065 13L1



Product Specifications

TC6 Seven-Channel Thermocouple Signal Data Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 seconds to once every 5 days



Model 20506

- Seven-Channel: one internal thermistor for cold-junction compensation and six external channels for thermocouple inputs
- Accommodates any J, K, S, or T type of thermocouple sensor
- On-board thermistor built-in the body of the logger
- Available in two models: TC6-N (narrow channel) and the TC6-W (wide channel).
- Inputs: thermocouple temperature range and resolution for each TC6 channel.
- TC6-N: Thermocouple Type, Narrow Channels Range, Narrow Channels Resolution J, 0° to 370°F (-20° to 190°C), 2.5°F (1.4°C); K, -10° to 440°F (-25° to 230°C), 3°F (1.7°C); S, 32° to 1750°F (0° to 960°C), 12.6°F (7°C); T, -30° to 390°F (-35° to 200°C), 3°F (1.7°C) TC6-W: Wide Channel Range, Wide Channel Resolution J, -55° to 1100°F (-20° to 600°C), 9°F (5°C); K, -145° to 1650°F (-100° to 1760°C), 12°F (6.7°C) S, 32° to 3200°F (0° to 1760°C), 41.5°F (23°C); T, -325° to 750°F (-200° to 400°C), 12°F (6.7°C)

Applications:

Monitoring performance of gas-fired heating equipment, verifying concrete curing temperatures, process verification, etc.

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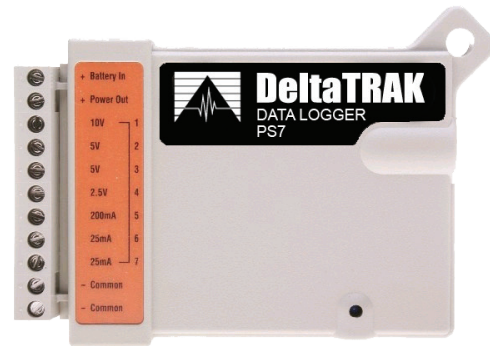
SS0066 13L1



Product Specifications

PS7 Eight-Channel Process Signal Data Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 seconds to once every 5 days



Model 20507

- Eight-Channel: one for the internal temperature sensor and seven external channels for analog voltage and current loop signals.
- Versatile electronic data logger designed for easy recording of different process signals including the popular 4-20mA and 0-5V.
- Uses external transducers (purchase separately below)
- Accessories: Transducer restrictions- compatible with three-wire transducer (with one power input, one signal output, and one common (-) only). Maximum use of one single power supply only per logger.

Applications:

Monitors a wide variety of measurement parameters including temperature, humidity, power, pressure, wind speed, current, voltage, tank level, flow, SCADA troubleshooting, etc.

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SS0067 13L1



Product Specifications

TC8 Eight-Channel Temperature Logger

Size	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight	110 g (3.75 oz)
Case Material	Noryl® plastic
Battery	3.6 volt Lithium, 1 Amp-Hour
Resolution	8-bit (1 part in 256)
Mounting	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods	1. Continuous (First-in, First-out) 2. Stop when full (Fill-then-stop)
Operating Limits	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements	Windows PC with at least 256MB RAM, 250MB of free hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 [compatible with Windows® XP SP4 (32bit), Windows Vista SP2 or Windows 7 (32bit or 64bit)]
Memory Size	32 K (32,768 readings)
Sampling Rates	User selectable rates between 8 seconds to once every 5 days



Model 20508

- Eight-Channel: one for the internal temperature sensor and seven for remote sensing of temperature, resistance, or switch status.
- Multi-point temperature logging. Measures up to eight different locations simultaneously using optional temperature probes with various temperature ranges; from as low as -75°F (-60°C) to as 490°F (255°C)
- Monitors and records high temperature, low temperature, pipe surface, skin surface, or a variety of other temperatures.
- Accessories: ET Thermistor temperature probes, or any NTC type thermistor probe.

Applications:

Food process verification, pharmaceutical and/or laboratory storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

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SS0068 13L1



Product Specifications

High Temp Stainless Steel Data Logger

Probe Measurement Range	-328°F to 500°F (-200°C to 260°C)*
Logger Operating Range	-40°F to 284°F (-40°C to 140°C), 0 to 100% R.H.
Sensor	100Ω Platinum RTD
Temperature Resolution	0.02°F / 0.01°C
Accuracy	±0.18°F (±0.1°C)
Reading Interval	1 reading every 1 second to 1 every 24 hours
Data Capacity	32,700 points
Calibration	NIST traceable
Battery	3.6V high-temperature lithium battery, 1 year typical life, user replaceable
Body Dimensions	1.6" H x 0.97" dia. (40mm H x 24.6 mm dia)
Probe Dimensions	1.1" L x 0.125" dia (27mm L x 3.2mm dia)
Weight	4.2 oz (120 grams)
Material	316 Stainless steel
Certification	CE mark
Waterproof Level	IP 68
* For use in temperatures < -40°F (-40°C) or > 284°F (140°C), use Thermal Shield, Model 20632	



Model 20629

- Rigid external probe, fast response time
- Highly accurate over wide measurement range
- N.I.S.T. traceable calibration
- Rugged, submersible, for use in harsh environments
- Non-volatile solid state memory for maximum data security
- User replaceable battery
- Easy to program and download

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SS0189 15D1



Product Specifications

Thermal Shield

Operating Environment (Time Limited)	-328°F to 482°F (-200°C to 250°C) 0% RH to 100% RH
Dimension	2.75" H x 2.0" dia (69.85mm H x 51mm dia.)
Weight	6.7oz (190g)
Material	Enclosure: PTFE

Ambient Temperature	Time In Air To Max Internal Temp (302°F/ 150°C)	Time In Liquid To Max Internal Temp (302°F/ 150°C)
-328°F (-200°C)	12 minutes	N/A
-292°F (-180°C)	13 minutes	N/A
-256°F (-160°C)	15 minutes	N/A
-220°F (-140°C)	17 minutes	N/A
-184°F (-120°C)	19 minutes	N/A
-148°F (-100°C)	22 minutes	N/A
-112°F (-80°C)	27 minutes	N/A
-76°F (-60°C)	37 minutes	22 minutes
-40°F to +284°F (-40°C to +140°C)	Indefinitely	Indefinitely
302°F (150°C)	59 minutes	34 minutes
320°F (160°C)	51 minutes	29 minutes
338°F (170°C)	43 minutes	25 minutes
356°F (180°C)	37 minutes	23 minutes
374°F (190°C)	34 minutes	20 minutes
392°F (200°C)	31 minutes	18 minutes
410°F (210°C)	29 minutes	17 minutes
428°F (220°C)	27 minutes	16 minutes
446°F (230°C)	25 minutes	15 minutes
464°F (240°C)	23 minutes	14 minutes
482°F (250°C)	22 minutes	13 minutes



Data Logger Not Included

Model 20632

- For use with High Temp Stainless Steel Data Logger Models 20629 & 20630
- Protects body of the logger when used outside of its operating range
- Probe is exposed through hole on top, for uses requiring internal temperature monitoring
- Ideal for extreme temperature applications:
 - ▶ Peanut roasting
 - ▶ Autoclave validation
 - ▶ Food processing
 - ▶ Conveyer ovens
 - ▶ Dishwasher testing

Disclaimer and Terms of Use

Listed specifications can be used to determine maximum allowable exposure times for the Thermal Shield at different temperatures beyond normal operating range of the logger. **Both the data logger and Thermal Shield must be at ambient temperature (approximately 25 °C) before being placed in the extreme temperature environment.** Immediately following exposure to high temperature, the logger should be removed from the thermal shield (using appropriate precautions, as it could be VERY hot) OR the logger and shield should be placed in a water bath (approximately 25 °C) for at least 15 minutes to allow it to cool. **Failing to do this may allow heat trapped in the Thermal Shield to continue to heat the data logger to potentially unsafe levels.**

If your application involves a ramp up to a temperature above 140 °C and/or any complex temperature profile that isn't simply a constant temperature, please contact Tech Support to determine whether the High Temp Stainless Steel Logger with Thermal Shield is suitable.

Please provide DeltaTrak with a detailed description of your temperature profile, including temperatures, durations, ramp times, and process media (air, steam, oil, water, etc.). If DeltaTrak is unable to definitively calculate the suitability of these products for your application, we can provide a test unit outfitted with a high temperature indicator sticker. This sticker has an indicator dot which will turn black if exposed to temperatures above 143 °C. Apply the sticker to the bottom of the data logger itself (not the thermal shield), remove the battery for safety, place the data logger into the thermal shield and run the assembly through the proposed temperature program. The first indicator dot on the sticker will turn black at 143 °C. If that happens, the Stainless Steel Data Logger with Thermal Shield is not appropriate for the application.

SS0191 15E1



Product Specifications

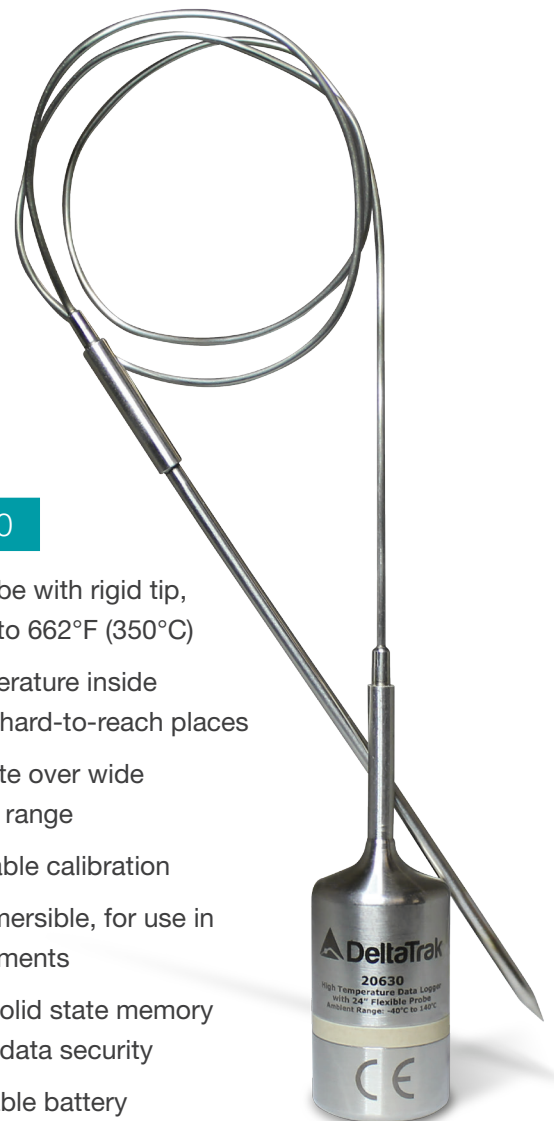
High Temp Stainless Steel Data Logger with Flex Probe

Probe Measurement Range	-328°F to 662°F (-200°C to 350°C)
Logger Operating Range	-40°F to 284°F (-40°C to 140°C), 0 to 100%RH
Sensor	100Ω Platinum RTD
Temperature Resolution	0.02°F/ 0.01°C
Accuracy	±0.18°F (±0.1°C)
Reading Interval	1 reading every 1 second to 1 every 24 hours
Data Capacity	32,700 points
Calibration	NIST traceable
Battery	3.6V high-temperature lithium battery, 1 year typical life, user replaceable
Body Dimensions	1.9" H x 0.97" dia. (48mm H x 24.6 mm dia)
Probe Dimensions: Bendable Portion	22"L x 0.062" dia. (559mm L x 1.6mm dia)
Probe Dimensions: Rigid Tip with Handle	Rigid Tip: 4.8" L x 0.125" dia. (121mm L x 3.2mm dia) Handle: 1" L x 0.188" dia. (25mm L x 4.8mm dia)
Weight	4.2 oz (120 grams)
Material	316 Stainless steel
Certification	CE mark
Waterproof Level	IP 68

* For use in temperatures < -40°F (-40°C) or > 284°F (140°C), use Thermal Shield, Model 20632

Model 20630

- Bendable probe with rigid tip, measures up to 662°F (350°C)
- Monitor temperature inside bottles, vials, hard-to-reach places
- Highly accurate over wide measurement range
- N.I.S.T. traceable calibration
- Rugged, submersible, for use in harsh environments
- Non-volatile solid state memory for maximum data security
- User replaceable battery
- Easy to program and download



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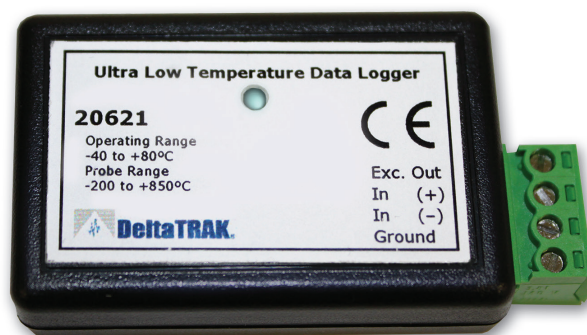
SS0190 15D1



Product Specifications

Ultra Low Temperature Data Logger

Measurement Range	-200°C to 850°C (-328°F to 1562°F)
Resolution	0.01°C(0.018°F)
Accuracy	±0.05°C (±0.09°F) from -200°C to 260°C (.328°F to 500°F) ±0.3°C (±0.54°F) from 260°C to 850°C (500°F to 1562°F)
Channels	1 External
Memory	21,845 readings
Calibration	Digital calibration through software
Battery	1 year (3.6V lithium bat- tery included)
Sample Rate	2 seconds up to 12 hours
Dimensions	1.4" x 2.5" x 0.6" (36mm x 64mm x 16mm)
Weight	1.0 oz (28 grams)
Operating Environment	-40°C to 80°C (-40°F to 176°F), 0 to 95% RH non-condensing
Certification	CE mark
Weight	9 oz (255 grams)
Material	316 Stainless steel
Certification	CE mark
Waterproof Level	Submersible
* For use in temperatures < -40°F (-40°C) or > 302°F (150°C), use Thermal Shield, Model 20623 (see page 2)	



Model 20621

The Ultra Low Temperature Data Logger is a miniature, battery powered, stand-alone, precision temperature recorder. The RTD sensor does not suffer from the cold-junction issues of the thermocouple nor the errors at high and low temperatures of the thermistor. The small size allows it to fit almost anywhere and data retrieval is quick and easy. The device can be started and stopped directly from your computer by simply plugging it into an empty COM or USB port.

- Compact reusable data logger
- Real-time operation
- Programmable start time
- User-friendly
- CE Compliant and N.I.S.T. traceable

Applications:

Calibration chamber monitoring, warehouse monitoring, HVAC, Medical/Pharmaceutical, Museum monitoring, Environmental studies

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registered quality management system

SS0072 13L1



Product Specifications

FlashLink® CT -80°C In-Transit Logger

Measurement Range	-80°C to 47°C (-112°F to 117°F)
Temperature Accuracy	0.5°C (±1.0°F) From -60°C to 30°C (-76°F to 86°F) 1°C (±2°F) From -80°C to -60°C (-112°F to -76°F) 2°C (±3°F) From 30°C to 47°C (86°F to 117°F)
Temperature Resolution	0.1°C/F
Data Capacity	3,824 Data points
Data Download Time	5 seconds
Factory Programmable Alarm Levels	High & low limits over entire range
LED Indicators	Flashing red for alarm, green for active
Battery	Single AA Lithium Battery
Dimensions	4.03" x 1.75" x 1.18" (102.55 mm x 44.5 mm x 30 mm)
Weight	2.82 oz. (80 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
IP Rating	68 (with cap on)
Certification	CE Mark, NIST traceable calibration, RoHS Compliant, BSS 7061 Compliant
System Requirements	Windows PC with current operating system, Adobe Reader, FlashPDF software
Download Requirements	8-Pin to USB Adapter



Models

5-Day	15-Day	45-Day	75-Day
20762	20763	20764	20769

- Compact, single-use, in-transit data logger
- Patented Shadow Log™ feature guarantees data even if the operator forgets to start the device
- FlashPDF software (21 CFR Part 11 Compliant)
- Download data to PC with 8-Pin to USB Adapter or print with CT Graphics Printer
- Ideal for dry ice shipments

Patent No. 6,088, 514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0074_16C4



Product Specifications

FlashLink Mini In-Transit Logger

Operating Range	-40°F to 150°F (-40°C to 66°C)
Temperature Accuracy	±1.0°F (0.5°C) From 32°F to 150°F (0°C to 66°C) ±2.0°F (1.0°C) over entire range
Temperature Resolution	0.1°F/°C
Data Capacity	3,823 data points
Data Download Time	5 seconds
Factory Programmable Alarm Levels	High & Low levels over entire range
LED Indicators	Flashing red for alarm, green for active
Battery Type	Lithium Coin cell
Dimensions/Enclosure	2.68" L x 1.27" W x 0.45" H (68.07mm L x 32.25mm W x 11.43mm H) ABS plastic case
Weight	0.64 oz. (18.14g)
Certification	CE Mark, Calibration Traceable to N.I.S.T., RoHS Compliant, BSS 7061 Compliant
System Requirements	Windows PC with current operating system, Adobe Reader, FlashPDF software
Download Requirements	8-Pin to USB Adapter



Models	5-Day	15-Day	45-Day	75-Day
Logging Interval	1 min. 54 Sec	5 min. 40 Sec	16 min. 58 Sec	28 min. 16 Sec
°F/°C	30013	30014	30015	30016

- Ideal for documenting storage and transport conditions of temperature sensitive products
- Compact, single-use, in-transit data logger
- Print data using CT Graphics Printer or download to a PC using 8-pin to USB adapter
- Patented Shadow Log™ feature guarantees data if the shipper fails to start the logger
- Includes Shipping Bag

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0120_16C3



Product Specifications

FlashLink Mini Seafood In-Transit Logger

Recording Period	15 Days
Logging Interval	5 min, 40 sec
Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Temperature Accuracy	±1.0°F (0.5°C) From 32°F to 122°F (0°C to 50°C) ±2.0°F (1.0°C) over entire range
Data Capacity	3,823 data points
Data Download Time	5 seconds typical for 3823 points
Alarm Settings	38°F high alarm/32°F low alarm (3°C high alarm/0°C low alarm)
LED Indicators	Flashing red for alarm, green for active
Battery	Coin Cell Lithium Battery
Logger Dimensions	2.68" L x 1.27" W x 0.45" H (68.07mm L x 32.25mm W x 11.43mm H)
Casing	ABS plastic
Logger Weight	0.64 oz. (18.14g)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, Calibration Traceable to N.I.S.T., RoHS Compliant,
IP Rating	IP56
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader, FlashPDF software
Download Requirements	8-Pin to USB Adapter



Model 30028

- Compact, single-use, in-transit data logger
- Document temperature during transport to meet FSMA and FDA requirements
- Approved by most receivers
- Consolidate logger inventory with one brand for all shipments
- High/Low alarms programmed for seafood products
- Mounted on high-visibility locator card
- Water-resistant plastic shipping pouch
- Patented Shadow Log™ feature guarantees data if the shipper fails to start the logger
- Download data to PC as secure PDF report or print chart using CT Graphics Printer

Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

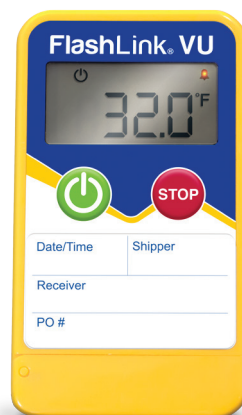
SS0172_16C2



Product Specifications

FlashLink VU In-Transit Logger

Measurement Range	-40°F to 150°F (-40°C to 65°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	3824 points
Data Download Time	5 seconds typical for 3800 points
Factory Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	3V Lithium/18 months
Dimensions	1.962" x 3.423" x .575" (50mm x 87mm x 15mm)
Casing	ABS plastic
Weight	1.6 oz. (45.36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, ROHS Compliant
Display	LCD, Red LED Alarm
IP Rating	IP56
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader, FlashPDF software
Download Requirements	8-Pin to USB adapter



FlashLink VU with high visibility in-transit sleeve

Models	5-Day	15-Day	45-Day	75-Day
Logging Interval	1 min. 54 Sec	5 min. 40 Sec	16 min. 58 Sec	28 min. 16 Sec
°F Models	20741	20742	20743	20744
°C Models	20745	20746	20747	20748

- Large, easy to read LCD display
- Trip history statistics available on LCD
- Patented Shadow Log feature guarantees data even if the operator fails to start the unit, single-use
- Print data using Graphics Printer, FlashPDF software or download to PC
- NIST traceable and CE Mark
- IP56 water-resistant rating

Patent No. 6,088, 514

DeltaTrak manufactures products under an ISO 9000 registered quality management system

SS0075_16C2



Product Specifications

FlashLink® VU Produce In-Transit Logger

Recording Period	15 Days
Logging Interval	5 min, 40 sec
Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Temperature Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	3823 points
Data Download Time	5 seconds typical for 3823 points
Alarms/Settings	High 41° F (5°C), Low 33° F (0.6°C) Delay Start 60 min, Alarm Delay 60 min
Battery	Coin Cell Lithium Battery
Logger Dimensions	1.962" x 3.423" x .575" (50mm x 87mm x 15mm)
Casing	ABS plastic
Logger Weight	1.6 oz. (45.36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, ROHS Compliant
Display	°F Scale on LCD, Red LED Alarm
IP Rating	IP56
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader, FlashPDF Software
Download Requirements	8-Pin to USB Adapter

Patent No. 6,088, 514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

FlashLink® VU
Produce In-Transit Logger

SHIPPER INSTRUCTIONS

- Fill out the shipping label on the logger.
- Press and hold the green START button until the active mode icon (power button) on the LCD and temperature reading appears.
- Use adhesive strips to place logger on top of pallet or package to be shipped. Fold bottom half of card down over edge of box to indicate location of logger.

INSTRUCCIONES DEL CARGADOR

- Re llene la etiqueta de envío en el registrador.
- Presione y mantenga presionado el botón verde START hasta que el icono de modo activo (power button) y la temperatura aparezca en la LCD.
- Utilice la cinta adhesiva para colocar el termografo arriba de la paleta o paquete por entregar. Doble la parte baja de la tarjeta hacia el borde de la caja para indicar el lugar del termografo.

ATTENTION DATA LOGGER HERE

CAUTION: If the Shadow Log (fail safe data logging) icon (moon) is visible, do not push the START button. Download the logger to a PC or printer to recover Shadow Log data.

If the logger is in active mode, the active mode icon (power button) and most recent temperature reading will be visible. If there has been a temperature excursion, the alarm icon (bell) is visible and the red LED will be flashing.

Stop mode — Active mode — Shadow Log mode — Trip Statistics — Alarm mode with flashing red LED

RECEIVER INSTRUCTIONS

DOWNLOAD LOGGER

- Remove logger from card.
- Press START button to display trip statistics and alarm status. A new statistic is shown each time START button is pressed.
- Connect logger to PC with 8-Pin to USB Adapter, or to a CT Graphics Printer. Downloading the logger will automatically stop the logger.

NOTE: Download FlashPDF software (www.deltatrak.com/support/software-drivers). For 8-Pin to USB Adapter, visit www.deltatrak.com/contact-us or call 800-962-6776 or 925-249-2250.

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15-DAY MODEL 20879
HI ALARM 41°F/5°C
LO ALARM 33°F/0.6°C

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CE

3000 18C1

Model 20879

- Accepted by most receivers
- Consolidate logger inventory with one brand for all shipments
- High/Low alarms programmed for produce
- Mounted on high-visibility locator card
- Trip history statistics available on LCD
- Patented Shadow Log feature guarantees data even if the operator fails to start the unit
- Download data to PC as secure PDF report or print chart using CT Graphics printer



SS0182_16C3

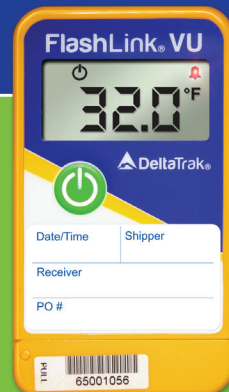
Product Specifications

FlashLink[®] VU Protein In-Transit Logger

Recording Period	15 Days
Logging Interval	6 min
Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Temperature Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	3823 points
Data Download Time	5 seconds typical for 3823 points
Alarms/Settings	High 36° F (2°C), Low 28° F (-2°C)
Battery	Coin Cell Lithium Battery
Logger Dimensions	1.962" x 3.423" x .575" (50mm x 87mm x 15mm)
Casing	ABS plastic
Logger Weight	1.6 oz. (45.36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, ROHS Compliant
Display	°F Scale on LCD, Red LED Alarm
IP Rating	IP56
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, FlashPDF software, Adobe Reader
Download Requirements	8-Pin to USB Adapter


Patent No. 6,088, 514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system



FlashLink[®] VU Protein In-Transit Logger


SHIPPER INSTRUCTIONS


- Fill out the shipping label on the logger.
- Press and hold the green START button until the active mode icon  flashes on the LCD and temperature reading appears.
- Use adhesive strips to place logger on top of pallet or package to be shipped. Fold bottom half of card down over edge of box to indicate location of logger.

INSTRUCCIONES DEL CARGADOR

- Re llene la etiqueta de envío en el registrador.
- Presione y mantenga presionado el botón verde START hasta que el icono de modo activo  y la temperatura aparezca en la LCD.
- Utilice la cinta adhesiva para colocar el termografo arriba de la paleta o paquete por entregar. Doble la parte baja de la tarjeta hacia el borde de la caja para indicar el lugar del termografo.

**ATTENTION
DATA LOGGER HERE**

CAUTION: If the Shadow Log (fail safe data logging) icon  is visible, do not push the START button. Download the logger to a PC or printer to recover Shadow Log data.

If the logger is in active mode, the active mode icon  and most recent temperature reading will be visible. If there has been a temperature excursion, the alarm icon  is visible and the red LED will be flashing.



15-DAY MODEL 20862
HI ALARM 36°F/2°C
LO ALARM 28°F/-2°C

RECEIVER INSTRUCTIONS

DOWNLOAD LOGGER

- Remove logger from card.
- Press START button to display trip statistics and alarm status. A new statistic is shown each time START button is pressed.
- Connect logger to PC with 8-Pin to USB Adapter, or to a CT Graphics Printer. Downloading the logger will automatically stop the logger.

NOTE: Download FlashPDF software (www.deltatrak.com/support/software-drivers). For 8-Pin to USB Adapter, visit www.deltatrak.com/contact-us or call 800-962-6776 or 925-249-2250.

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DeltaTrak
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2988 18C2

Model 20862

- Accepted by most receivers
- Consolidate logger inventory with one brand for all shipments
- High/Low alarms programmed for protein
- Mounted on high-visibility locator card
- Trip history statistics available on LCD
- Patented Shadow Log feature guarantees data even if the operator fails to start the unit
- Download data to PC as secure PDF report or print chart using CT Graphics printer

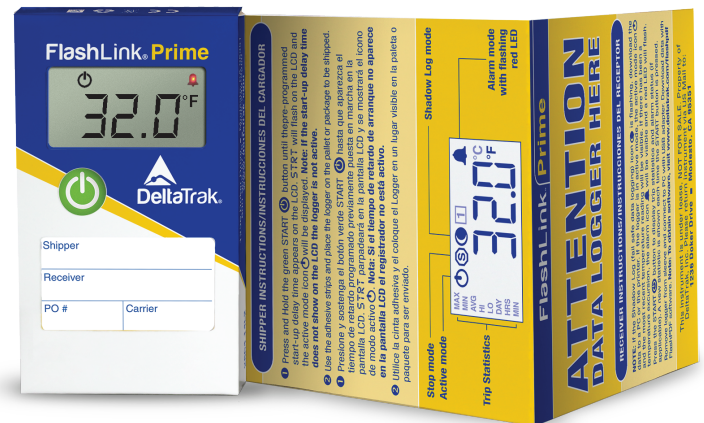


SS0214_16C1

Product Specifications

FlashLink Prime In-Transit Logger

Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Temperature Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	3823 points
Data Download Time	5 seconds typical for 3823 points
Battery	Coin Cell Lithium Battery
Logger Dimensions	1.962in x 3.423in x .575in (50mm x 87mm x 15mm)
Casing	ABS plastic
Logger Weight	1.6 oz. (45.36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, ROHS Compliant,
Display	LCD, Red LED Alarm
IP Rating	IP56
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader, FlashPDF software
Download Requirements	8-Pin to USB Adapter



Models	15-Day	45-Day
°F Models	30080	30082

- Prime Services Include
 - ▶ Priority shipping, same day ordered
 - ▶ Post trip calibration service
 - ▶ Access to trip reports on ColdTrak Data Central cloud-based service
 - ▶ No charge for replacement loggers
- Accepted by most receivers
- Consolidate logger inventory with one brand for all shipments
- Mounted on high-visibility locator card
- Trip history statistics available on LCD
- Patented Shadow Log feature guarantees data even if the operator fails to start the unit
- Download data to PC as secure PDF report or print chart using CT Graphics printer

Patent No. 6,088, 514
DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0181_16C3



Product Specifications

FlashLink Cold Chain USB In-Transit Logger

Recording Period	75 Days
Logging Interval	28 min, 16 sec
Measurement Range	-40°C to 50°C
Temperature Resolution	0.1°C
Accuracy	±0.3°C from -10°C to 10°C ±0.5°C from 10°C to 25°C ±1.0°C above 25°C ±1.0°C below -10°C
Data Capacity	7920 points
Data Download Time	5 seconds typical for 3823 points
Battery	Coin Cell Lithium Battery
Dimension	1.575 in x 3.189 in x .575 in (40mm x 81mm x 13mm)
Casing	ABS plastic
Weight	1.3 oz. (36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, ROHS Compliant
Display	°C Scale on LCD, Red LED Alarm
FAA Compliance	RTCA/DO-160
IP Rating	IP54 (with silicon cap on)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader, FlashPDF software
Download Requirements	Direct USB connection



Model 20996

- Ideal for export shipments
- Download to check temperature at each stopping point on a shipping route
- Continues to record data after downloading, until memory is full
- Logs temperature history all the way to final destination
- Patented Shadow Log® feature guarantees data even if operator fails to start the unit
- Trip history statistics available on LCD
- Direct USB connection, no cradle, reader or adapter needed
- Download data as PDF report using free FlashPDF software with multi-language options

High visibility shipping sleeve



Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

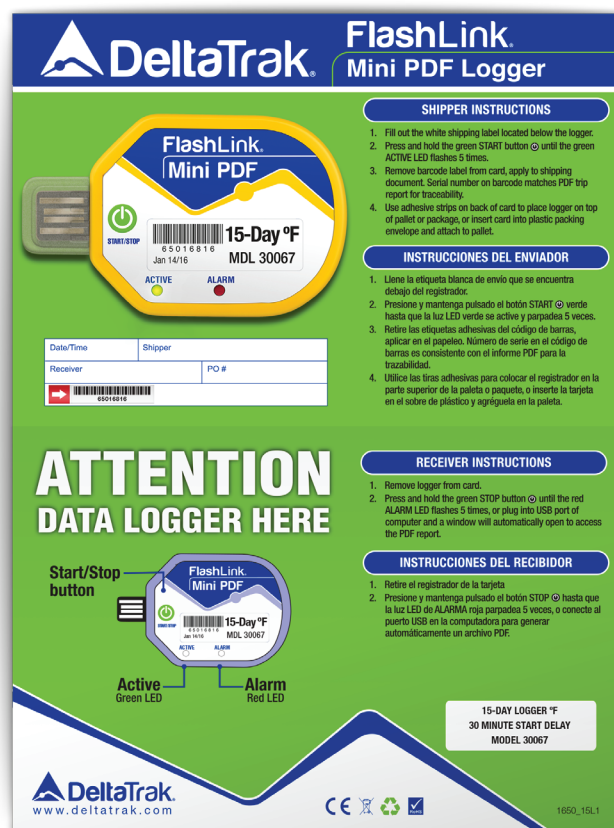
SS0177_16C3



Product Specifications

FlashLink Mini PDF In-Transit Logger

Measurement Range	-22°F to 158°F (-30°C to 70°C)
Accuracy	±1.0°F/0.5°C
Data Download Time	30 seconds typical
Factory Programmed Alarms & Delays	High & Low levels over entire range Standard 30 minute start and alarm delay
Battery	Coin Cell Battery
Dimensions	1.87 in x 3.27 in x 0.236 in (47.3 mm x 83.0 mm x 6.0 mm)
Weight	0.367 oz. (10.4 grams)
Shelf Life	18 Months
Certification	CE Mark, Calibration traceable to NIST, RoHS Compliant
Display	Green and Red LED
Waterproof Rating	IP54 with silicone cap
Storage Conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system Adobe Reader
Download Requirements	Direct USB connection to PC, tablet or printer



FlashLink Mini PDF with high visibility locator card

Models	15-Day	75-Day
°F Models	30067	30084
Sample Rate	2 Min	10 Min
Data Capacity	10800 points	10800 points

- Compact, single-use, in-transit temperature logger
- No software required to download data
- Built-in USB connector, no special reading devices needed
- On board software automatically creates a secure PDF report



Product Specifications

FlashLink[®] USB PDF -80°C In-Transit Logger

Measurement Range	-80°C to 50°C
Temperature Resolution	0.1°C over full temperature measurement range
Accuracy	±0.5°C from 0°C to 25°C ±1.0°C from 25°C to 47°C ±1.0°C from -40°C to 0°C ±1.7°C from -80°C to -40°C
Data Capacity	3,823 points
Data Download Time	5 seconds typical for 3823 points
Factory Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Single AA Lithium battery
Dimensions	1.57" x 3.67" x 0.94" (40mm x 93.5 mm x 24mm)
Casing	PC/ABS plastic
Weight	1.9 oz. (54 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, ROHS Compliant, BSS 7061 Compliant
FAA Compliance	RTCA/DO-160
Display	°C Scale on LCD, Red LED Alarm
IP Rating	IP54 (with silicon cap on)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system Adobe reader
Download Requirements	Direct USB connection



Pillow Sleeve



Models

5-Day	15-Day	45-Day	75-Day
40535	40536	40537	40538

- Compact, single-use in-transit temperature logger
- Ideal for dry ice shipments
- Onboard software automatically creates a PDF report and CSV file
- Document temperature conditions down to -80°C (112°F)
- Trip history statistics available on LCD
- Low battery indicator
- Patented Shadow Log[®] feature guarantees data even if the operator fails to start the unit
- Direct USB connection, no cradle, reader or adapter needed

Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0205 16C1



Product Specifications

FlashLink. PDF In-Transit Logger

Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from -4°F to 113°F, (±0.5°C from -20°C to 45°C); ±2.0°F above 113°F, (±1.0°C above 45°C); ±2.0°F below -4°F, (±1.0°C below -20°C);
Data Capacity	4320 data points for 5, 15 and 45-Day models 7920 data points for 75-Day model
Data Download Time	30 seconds typical for 4320 points
Factory Programmable Alarm Levels	High/low limits over entire temperature range
Battery	Coin Cell Lithium battery
Dimensions	1.93" x 3.62" x 0.67" (49mm x 92mm x 17mm)
Casing	ABS plastic
Weight	1.6 oz. (45.36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, Calibration traceable to NIST, ROHS Compliant, BSS 7061 Compliant
Display	LCD, Red LED Alarm
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
PDF Standards	Complies with ISO19005-1, PDF/A, 21 CFR Part 11
System Requirements	Windows PC with current operating system, Adobe Reader
Download Requirements	Direct USB connection



Models	5-Day	15-Day	45-Day	75-Day
°F	40420	40430	40440	40450
°C	40421	40431	40441	40451

- Single-use temperature logger
- Large, easy to read LCD display
- No software required to download data
- Built-in USB connector, no special reading devices needed
- Automatically creates secure PDF report and CSV file
- Trip history statistics available on LCD
- Patented Shadow Log® feature guarantees data even if the shipper fails to start the logger
- High/low alarm indicators
- Service available to custom configure logging parameters, alarms, delayed start

Patent No. 6,088, 514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0173_16C1



Product Specifications

FlashLink USB PDF In-Transit Logger

Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	3823 points
Data Download Time	5 seconds typical for 3823 points
Factory Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Coin Cell Lithium Battery
Dimensions/ Body	1.575" x 3.189" x .575" (40mm x 81mm x 13mm)
Casing	ABS plastic
Weight	1.3 oz. (36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, RoHS Compliant
FAA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
IP Rating	IP54 (with silicon cap on)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader
Download Requirements	Direct USB connection



Models	5-Day	15-Day	45-Day	75-Day
Logging Interval	1 min. 54 Sec	5 min. 40 Sec	16 min. 58 Sec	28 min. 16 Sec
°F Models	20910	20911	20912	20913
°C Models	20914	20915	20916	20917

- Single-use
- Large, easy to read LCD display
- Trip history statistics available on LCD
- USB Connection, no cradle reader or adapter needed
- Onboard software automatically creates a PDF report and CSV file
- Patented Shadow Log® feature guarantees data even if the operator fails to start the unit

Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0078_16C3



Product Specifications

FlashLink Mini Multi-Use Data logger

Operating Range	-40°F to 150°F (-40°C to 66°C)
Temperature Accuracy	±1.0°F (0.5°C) From 32°F to 150°F (0°C to 66°C) ±2.0°F (1.0°C) over entire range
Temperature Resolution	0.1°F/°C
Data Capacity	3,823 data points
Data Download Time	5 seconds
Programmable Alarm Levels	High and Low levels over entire range
LED Indicators	Flashing red for alarm, green for active
Battery Type	Lithium Coin cell
Dimensions/Enclosure	2.68in L x 1.27in W x 0.45in H; (68.07mm L x 32.25mm W x 11.43mm H); ABS plastic case
Weight	0.64 oz. (18.14g)
Certification	CE Mark, NIST traceable, RoHS compliant
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	8-Pin to USB Adapter



Model 30024

- Ideal for documenting storage and transport conditions of temperature sensitive products
- User Programmable: manual or automatic start, sample interval, alarm limits, data tags
- Easily downloads to a PC using CT-USB adapter NIST traceable and CE Mark

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0143 16C1



Product Specifications

FlashLink PDF Multi-Use Data Logger

Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.2°F / 0.1°C
Accuracy	±1.0°F from -4°F to 113°F; (±0.5°C from -20°C to 45°C) ±2.0°F above 113°F; (±1.0°C above 45°C) ±2.0°F below -4°F; (±1.0°C below -20°C)
Data Capacity	16,112 points
Data Download Time	30 seconds typical
Factory Programmed Alarms & Delays	High/low limits over entire temp range
Battery	Coin Cell Lithium battery
Dimensions	1.93" x 3.62" x 0.67" (49mm x 92mm x 17mm)
Casing	ABS plastic
Weight	1.6 oz. (45.36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, Calibration traceable to NIST, ROHS Compliant, BSS 7061 Compliant
Display	LCD, Red LED Alarm
Storage Conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
PDF Standards	Complies with ISO19005-1, PDF/A, 21 CFR Part 11
System Requirements	Windows PC with current operating system Adobe Reader
Download Requirements	Direct USB connection



Models	7-Day 99 Uses	15-Day 60 Uses	31-Day 24 Uses
°C	40200	40211	40220
°F	40201	40210	40221

- One unit can be used multiple times
- No software or PC needed to program logger
- No software needed to download data
- Built-in USB connector, no special reading devices required
- Stops recording after downloading data
- Automatically creates secure PDF report and CSV file
- Push-button resets and restarts unit for next use
- Temperature statistics available on LCD
- Service available to custom configure logging parameters, alarms, delayed start

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0180_16C1



Product Specifications

FlashLink HVAC PDF Data Logger

Measurement Range	-40°F to 122°F
Temperature Resolution	0.2°F
Accuracy	±1.0°F from -4°F to 113°F; ±2.0°F above 113°F; ±2.0°F below -4°F
Data Capacity	16,112 points
Data Download Time	30 seconds typical
Battery	Coin Cell Lithium battery
Dimensions	1.93" x 3.62" x 0.67" (49mm x 92mm x 17mm)
Casing	ABS plastic
Weight	1.6 oz. (45.36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, Calibration traceable to NIST, RoHS Compliant
Display	LCD, battery life indicator
Storage Conditions	-4°F to 122°F 0% to 95% RH w/o condensation
PDF Standards	Complies with ISO19005-1, PDF/A, 21 CFR Part 11
Min. System Requirements	Windows PC with current operating system Adobe Reader
Download Requirements	Direct USB connection to PC, printer or tablet



Fold-out USB connector

Model 40240	7-Day
°F	99 uses

- One unit can be used multiple times
- No software or PC needed to program logger
- No software needed to download data
- Built-in USB connector, no special reading devices required
- Option to print PDF report directly to printer without using a computer
- Stops recording after downloading data
- Automatically creates secure PDF report and CSV file
- Push-button resets and restarts unit for next use
- Temperature statistics available on LCD
- Service available to custom configure logging parameters, alarms, delayed start

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0194_16C2



Product Specifications

FlashLink Electronic Data Logger

Internal Temp Sensor Range	-40°F to 150°F (-40°C to 66°C)
External Temp Sensor Range	-40°F to 302°F (-40°C to 150°C)
Temperature Accuracy	±1°F (0.5°C) at 32°F to 150°F (0°C to 66°C) ±2°F (1°C) over entire range
Temperature Resolution	0.1°F/C
Logged Data Capacity	7,918 data points
Data Download Time	5 second typical for 3,800 data points
Programmable Alarm Levels	High and Low Levels over entire range
Startup Alarm Delay	Skip 1 to 16 points
Operating Alarm Delay	0 to 79 minute delay filter
Logging Time Interval Range	3 seconds to 24 hours
Programmable Delayed Start	0 seconds to 256 days
LED Indicators	12-second flashing red for alarm; green for active
Battery Type/ Life	CR2450 3v lithium/ 1 year
Dimensions/ Enclosure	ABS plastic case, 3.25 x 2.25 x .75 in. (8.3 x 5.7 x 1.9cm.)
Water Resistance	IP56
Shock Resistance	Withstands 3-foot drop to hard surface
Certification	CE Mark by T.U.V.; Calibration Traceable to N.I.S.T.
Min. System Requirements	IBM compatible 486 with 4MB RAM, Windows XP or Vista
Software Requirements	FlashLink Program Manager Software #20223
Software Requirements	FlashLink Program Manager Software #20223



Model 20202

- One internal sensor and one external stainless steel probe 3.5 in (89mm) with 40 in. (1m) cable
- Very easy to use and highly accurate
- Output charts, graphs, spreadsheets or email your results anywhere in the world
- Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0052 13K1



Product Specifications

FlashLink Electronic Data Logger

External Temp Sensor Range	-40°F to 302°F (-40°C to 150°C)
Temperature Accuracy	±1°F (0.5°C) at 32°F to 150°F (0°C to 66°C) ±2°F (1°C) over the entire range
Temperature Resolution	0.1°F/°C
Logged Data Capacity	7,918 data points
Data Download Time	5 second typical for 3,800 data points
Programmable Alarm Levels	High and low levels over entire range
Startup Alarm Delay	Skip 1 to 16 points
Operating Alarm Delay	0 to 79 minute delay filter
Logging Time Interval Range	3 seconds to 24 hours
Programmable Delayed Start	1 second to 256 days
LED Indicators	12 second flashing red for alarm; green for active
Battery Type/Life	CR2450 3v lithium / 1 year
Dimensions / Enclosure	ABS plastic case, 3.25" x 2.25" x .75" (8.3 x 5.7 x 1.9 cm)
Water Resistance	Withstands immersion up to six inches
Shock Resistance	Withstands 3 foot drop to hard surface
Certification	CE Mark by T.U.V.; Calibration traceable to N.I.S.T.
Min. System Requirements	PC with 4 MB RAM, Windows XP or Vista
Software Requirements	FlashLink Program Manager Software
Min. System Requirements	IBM compatible 486 with 4MB RAM, Windows XP or Vista
Software Requirements	FlashLink Program Manager Software #20223



Model 20204

- Two sharp-tip external stainless steel temperature probes 3.5 in(89mm) with 40 in.(1m) cable
- Very easy to use and highly accurate
- Output charts, graphs, spreadsheets or email your results anywhere in the world

DeltaTrak manufactures products under an ISO 9001:2008
registered quality management system

SS0053 13K1



Product Specifications

FlashLink Electronic Data Logger

External Temp Sensor Range	-112°F to 230°F (-80°C to 110°C)
Temperature Accuracy	±1°F (0.5°C) at 32°F to 150°F (0°C to 66°C) ±2°F (1°C) over entire range
Temperature Resolution	0.1°F/°C
Logged Data Capacity	7,918 data points
Data Download Time	5 second typical for 3,800 data points
Programmable Alarm Levels	High and low levels over entire range
Startup Alarm Delay	Skip 1 to 16 points
Operating Alarm Delay	0 to 79 minute delay filter
Logging Time Interval Range	3 seconds to 24 hours
Programmable Delayed Start	0 second to 256 days
LED Indicators	12 second flashing red for alarm; green for active
Battery Type/Life	Lithium-Thionyl Chloride/ 3year at 1min interval
Dimensions / Enclosure	ABS plastic case, 3.25" x 2.25" x .75" (8.3 x 5.7 x 1.9 cm)
Water Resistance	IP56
Shock Resistance	Withstands 3 foot drop to hard surface
Certification	CE Mark by T.U.V.; Calibration traceable to N.I.S.T.
Min. System Requirements	PC with 4 MB RAM, Windows XP or Vista
Software Requirements	FlashLink Program Manager Software, #20223



Model 20205

- Single low-temp, -112°F (-80°C), external stainless steel blunt tip probe 0.5 in (13mm) with 40 in. (1m) cable
- Very easy to use and highly accurate
- Output charts, graphs, spreadsheets or email your results anywhere in the world

Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9001:2008
registered quality management system

SS0055 13K1



Product Specifications

FlashLink Electronic Data Logger

Internal Temp Sensor Range	-40°F to 150°F (-40°C to 66°C)
Temperature Accuracy	±1°F (0.5°C) at 32°F to 150°F (0°C to 66°C) ±2°F (1°C) over entire range
Humidity Accuracy	±5% at 50% RH at 25°C
Operating Humidity Range	1% to 99% RH
Temperature Resolution	0.1°F/C
Logged Data Capacity	10,339 data points
Data Download Time	5 second typical for 3,800 data points
Programmable Alarm Levels	High and Low Levels over entire range
Startup Alarm Delay	Skip 1 to 16 points
Operating Alarm Delay	0 to 79 minute delay filter
Logging Time Interval Range	3 seconds to 24 hours
Programmable Delayed Start	0 seconds to 256 days
LED Indicators	12-second flashing red for alarm; green for active
Battery Type/ Life	CR2450 3v lithium/ 1 year
Dimensions/ Enclosure	ABS plastic case, 3.25 x 2.25 x .75 in. (8.3 x 5.7 x 1.9 cm.)
Water Resistance	IP56
Shock Resistance	Withstands 3-foot drop to hard surface
Certification	CE Mark by T.U.V.; Calibration Traceable to N.I.S.T.
Min. System Requirements	IBM compatible 486 with 4MB RAM, Windows XP or Vista
Software Requirements	FlashLink Program Manager Software #20223



Model 20207

- One internal temperature sensor and one internal humidity sensor
- Very easy to use and highly accurate
- Output charts, graphs, spreadsheets or email your results anywhere in the world

Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9000
registered quality management system

SS0054 13K1



Product Specifications

FlashLink Electronic Data Logger

External Temp Sensor Range	-40°F to 302°F (-40°C to 150°C)
Temperature Accuracy	±1°F (0.5°C) at 32°F to 150°F (0°C to 66°C) ±2°F (1°C) over entire range
Temperature Resolution	0.1°F/C
Logged Data Capacity	7,918 data points
Data Download Time	5 second typical for 3,800 data points
Programmable Alarm Levels	High and Low Levels over entire range
Startup Alarm Delay Skip	1 to 16 points
Operating Alarm Delay	0 to 79 minute delay filter
Logging Time Interval Range	3 seconds to 24 hours
Programmable Delayed Start	0 seconds to 256 days
LED Indicators	12-second flashing red for alarm; green for active
Battery Type/ Life	CR2450 3v lithium/ 1
Dimensions/ Enclosure	ABS plastic case, 3.25 x 2.25 x .75 in. (8.3 x 5.7 x 1.9cm.)
Water Resistance	IP56
Shock Resistance	Withstands 3-foot drop to hard surface
Certification	CE Mark; Calibration Traceable to N.I.S.T.
Min. System Requirements	Windows PC with 4MB RAM, Windows XP or Vista
Software Requirements	FlashLink Program Manager Software #20223
Min. System Requirements	IBM compatible 486 with 4MB RAM, Windows XP or Vista
Software Requirements	FlashLink Program Manager Software #20223



Model 20209

- Single sharp-tip stainless steel external temperature probe 3.5 in (89mm) with 40 in. (1m) cable
- Very easy to use and highly accurate
- Output charts, graphs, spreadsheets or email your results anywhere in the world

Patent No. 6,088,514

DeltaTrak manufactures products under an ISO 9000 registered quality management system

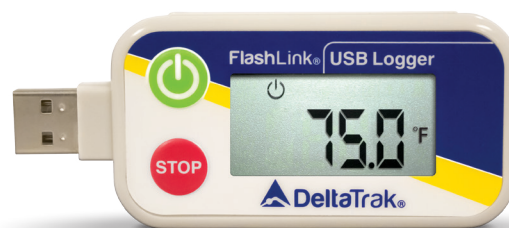
SS0056 13K1



Product Specifications

FlashLink® USB Reusable Data Logger

Measurement Range	-40°F to 149°F (-40°C to 65°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	3823 points
Data Download Time	2 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	(CR2032) 3.6V Lithium/18 months
Dimensions/Body	1.575" x 3.189" x .575" (40mm x 81mm x 13mm)
Casing	PC/ABS plastic
Weight	1.3 oz. (36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, RoHS Compliant
Display	LCD, Red LED Alarm
Waterproof Rating	IP67 with silicon cap on
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system Adobe Reader
Programming	FlashPDF Program Manager software or USB Program Manager software
Download Requirements	Direct USB connection



Model 20901

- Single channel, internal sensor for ambient air temperature
- User Programmable: manual or automatic start, sample interval, alarm limits, data tags
- Large, easy to read LCD display
- Trip history statistics available on LCD
- NIST traceable and CE Mark
- USB Connection

Patent No. 6,088,514




DeltaTrak manufactures products under an ISO 9000
registered quality management system

SS0077 16C1



Product Specifications

FlashLink® USB Reusable Data Logger with External Probe

Probe Measurement Range	-40°F to 185°F (-40°C to 85°C)
Probe Size: Penetration tip (20902)	0.14 in Dia x 3.98 in L (3.5mm Dia x 101mm L), 3.28 ft (1 m) Teflon cable
Blunt tip (20903)	0.15 in Dia x 0.98 in L (3.8mm Dia x 25mm L), 3.28 ft (1 m) Teflon cable
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	3823 points
Data Download Time	2 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range
Battery	3.6V Lithium/18 months
Dimensions/Body	1.575 in x 3.189 in x 0.575 in (40 mm x 81 mm x 13 mm)
Casing	PC/ABS plastic
Certification	CE Mark, NIST traceable, RoHS Compliant
Display	LCD, Red LED Alarm
Waterproof Rating	IP67 with silicon cap on
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashPDF Program Manager software or USB Program Manager software
Download Requirements	Direct USB connection
Patent No. 6,088,514	
	
DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system	



Blunt Tip

Models

Sharp Tip	20902
Blunt Tip	20903

- Single channel, external probe for product core temperature
- User Programmable: manual or automatic start, sample interval, alarm limits, data tags
- Large, easy to read LCD display
- Trip history statistics available on LCD
- NIST traceable and CE Mark
- USB Connection

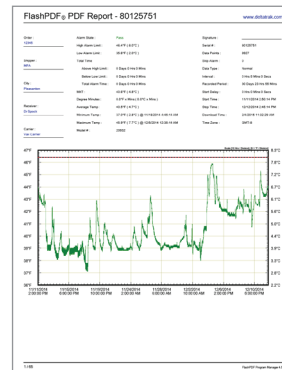
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Product Specifications

FlashLink[®] USB PDF Reusable Data Logger

Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C) ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	32,496 points
Data Download Time	5 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Single AA Lithium battery, LCD % remaining power indicator
Dimensions/Body	1.57" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
Weight	1.9 oz. (54.3 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, RoHS Compliant
FAA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 (with silicon cap on)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	Direct USB connection to PC



Model 40510

- Single channel, internal sensor
- Automatically generates PDF report and CSV file
- Ideal for monitoring ambient temperature
- User programmable: manual or auto start, logging intervals, high/low alarms
- Large easy-to-read LCD
- Multi-language FlashPDF Program Manager software
- Summary analysis of data, with alarm information
- Degree Minutes and MKT calculations

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

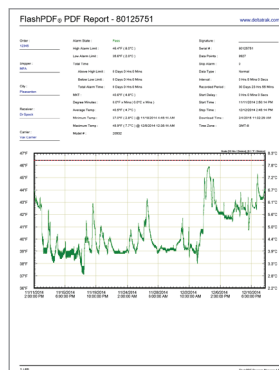
SS0200 16C2



Product Specifications

FlashLink® USB PDF Reusable Data Logger with External Sharp Probe

Probe Measurement Range	-40°F to 185°F (-40°C to 85°C)
Operating Range	-40°F to 122°F (-20°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	32,496 points
Data Download Time	5 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range displayed on LCD
Battery	Single AA Lithium battery, LCD % remaining power indicator
Dimensions/Body	1.575" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
Probe Size	0.14in Dia x 3.98in (3.5mm Dia x 101mm) 6.56 ft. (2m) teflon cable
Weight	2.56 oz (72.57 grams)
Certification	CE Mark, NIST traceable, RoHS Compliant
FAA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 with silicon cap on
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH
System Requirements	Windows PC with current operating system Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	Direct USB connection to PC



Model 40515

- Single channel, external sharp probe
- Automatically generates PDF report and CSV file
- Ideal for monitoring internal temperature of products
- User programmable: manual or auto start, logging intervals, high/low alarms
- Large easy-to-read LCD
- Summary analysis of data, with alarm information
- Degree Minutes and MKT calculations
- Low battery indicator on LCD

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

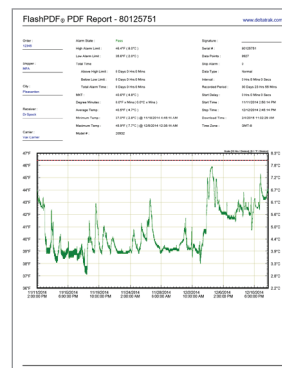
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Product Specifications

FlashLink® USB PDF Reusable Data Logger with External Blunt Probe

Probe Measurement Range	-40°F to 185°F (-40°C to 85°C)
Operating Range	-40°F to 122°F (-20°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	32,496 points
Data Download Time	5 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range displayed on LCD
Battery	Single AA Lithium battery, LCD % remaining power indicator
Dimensions/Body	1.575" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
Probe Size	0.15in Dia x 0.98in L (3.8mm Dia x 25mm L), 6.56 ft. (2m) teflon cable
Weight	2.56 oz (72.57 grams)
Certification	CE Mark, NIST traceable, RoHS Compliant
FAA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 with silicon cap on
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	Direct USB connection to PC



Model 40520

- Single channel, external blunt probe
- Automatically generates PDF report and CSV file
- Ideal for monitoring internal temperature of products
- User programmable: manual or auto start, logging intervals, high/low alarms
- Large easy-to-read LCD
- Multi-language FlashPDF Program Manager software
- Summary analysis of data, with alarm information
- Degree Minutes and MKT calculations
- Low battery indicator on LCD

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SS0202_16C2

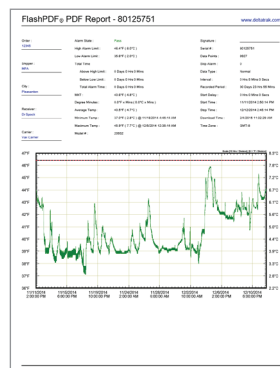


Product Specifications

FlashLink® USB PDF -80°C

Reusable Data Logger with External Blunt Probe

Probe Measurement Range	-112°F to 116°F (-80°C to 47°C)
Operating Range	-4.0°F to 122°F (-20°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from -40°F to 77°F (±0.5°C from -40°C to 25°C) ±2.0°F from 112°F to -40°F (±1.0°C from -80°C to -40°C) ±2.0°F from 77°F to 116°F (±1.0°C from 25°C to 47°C)
Data Capacity	32,496 points
Data Download Time	5 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range
Battery	Single AA Lithium battery, LCD % remaining power indicator
Dimensions/Body	1.57" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
Probe Size	0.15in Dia x 0.98in (3.8mm Dia x 25mm) 6.56 ft. (2m) teflon cable
Weight	2.24 oz (63.5 grams)
Certification	CE Mark, NIST traceable, RoHS Compliant
FAA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 with silicon cap on
Storage conditions	-4.0°F to 122°F (-20°C to 50°C), 0% to 95% RH
System Requirements	Windows PC with Current Operating System, Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	Direct USB connection to PC



Model 40530

- Single channel, external blunt tip probe
- Automatically generates PDF report and CSV file
- Ideal for shipments with dry ice
- User programmable: manual or auto start, logging intervals, hi/low alarms
- Large, easy to read LCD
- Low battery indicator on LCD

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0204 16C2



Product Specifications

FlashLink[®] USB PDF Reusable Temperature and Humidity Data Logger

Temperature Measurement Range	-22°F to 140°F (-30°C to 60°C)
Temperature Resolution	Temperature 0.2°F (0.1°C) Humidity 0.1% RH
Temperature Accuracy	±33°F from -4°F to +104°F (±0.5°C from -20°C to +40°C)
Humidity Measurement Range	0% to 99% RH
Humidity Accuracy	±3% RH (77°F/25°C, 20%-90% RH)
Data Capacity	16,000 data points
Programmable Sample Interval	10 seconds to 24 hours
Battery	Coin cell battery
Dimensions/Body	44mm x 84mm x 20mm
Casing	ABS plastic
Probe Size	0.08in Dia x 1.97in (2mm Dia x 50mm) 3 ft. (1m) cable
Certification	CE mark, NIST traceable, RoHS compliant
Display	LCD
PDF Standards	Complies with ISO 19005-1, PDF/A,
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	Provided software
Download Requirements	Direct USB connection



Model 40550

- Reusable temperature and humidity data logger
- Large, easy to read LCD display
- Built-in USB connector, no special reading devices needed
- Automatically creates secure PDF report and CSV file
- Trip history statistics available on LCD
- Optional external probe
- High/low alarm indicators with audible buzzer

SS0208 16C1



Product Specifications

FlashLink® 8 Pin to USB High Speed Adapter Kit

Case	ABS Plastic
Dimensions	3.5 in x 0.75 in x 0.56 in (88.9mm x 19.5mm x 14.3mm)
Weight	0.49 oz (14 grams)
LED	Red: PC Transmitting data to logger Green: PC receiving data from logger Yellow: PC receiving data from adapter
Connectors	USB: Type A DeltaTrak 8-Pin
Software/Download Requirements	FlashPDF Software Version 4.7 or higher, Adobe Reader
Extension Cable	6ft (2m) male/female USB 2.0



USB Extension Cable



Protective Cap

Model 20719



The FlashLink 8 Pin to USB High Speed Adapter Kit includes a USB Type A extension cable and our new adapter. The adapter downloads data loggers with full memory (3823 data points) up to 4 times faster than the previous model.

This high speed adapter must be used with the latest FlashPDF Software, version 4.7 or higher. FlashPDF software can be downloaded from the DeltaTrak website by going to the Software & Drivers web page in the Support section or by using this URL - <http://www.deltatrak.com/support/softwares-drivers>.

- Eight pin to USB adapter
- Connects FlashLink Mini and FlashLink VU data loggers to PC with type A USB connector
- Use in conjunction with FlashPDF software
- Flashing LEDs indicate download status and operation
- Download speed four times faster than 20711 adapter
- USB extension cable included

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system



SS0199 16B2



Product Specifications

WarmMark Time-Temperature Indicator

Models	Response Temp	Window #1	Window #2	Window #3
51013	0°C / 32°F	2 Hr (±0.4 Hr)	12 Hr (±1 Hr)	48 Hr (±2 Hr)
51014	5°C / 41°F	20 Min (±5 Min)	2 Hr (±.4 Hr)	8 Hr (±0.75 Hr)
51017	10°C / 50°F	2 Hr (±0.4 Hr)	12 Hr (±1 Hr)	48 Hr (±2 Hr)
51018	20°C / 68°F	2 Hr (±0.4 Hr)	12 Hr (±1 Hr)	48 Hr (±2 Hr)
51020	30°C / 86°F	20 Min (±5 Min)	2 Hr (±0.4 Hr)	8 Hr (±0.75 Hr)
51021	37°C / 99°F	20 Min (±5 Min)	2 Hr (±0.4 Hr)	8 Hr (±0.75 Hr)
51022	8°C / 46°F	2 Hr (±.4 Hr)	12 Hr (±1 Hr)	48 Hr (±2 Hr)
51034	-18°C / 0°F	1 Hr (±5 Min)	2.5 Hr (±0.4 Hr)	12 Hr (±0.75 Hr)
51035	25°C / 77°F	30 Min (±5 Min)	2 Hr (±0.4 Hr)	8 Hr (±0.75 Hr)



Response Temperatures	-18°C/0°F to 37°C/ 99°F
Accuracy	±1°C of its response temperature
Tag Size	.75 in. x 1.81 in. x .06 in.; (1.9 cm x 4.6 cm x .15 cm)

- Designed for accurate time/ temperature monitoring
- Provides a permanent temperature exposure record that assures your customers of consistent quality
- A blotter paper pad saturated with a red-dyed chemical is specially formulated to melt at the tag's response temperature
- Available in a variety of response temperatures
- Easy to use

DeltaTrak manufactures products under an ISO 9000 registered quality management system

SS0103 14C1



Product Specifications

WarmMark Duo Time-Temperature Indicator

Activation Temperatures	50°F/10°C and 93°F/34°C
Exposure Time Period above 50°F/10°C	Up to 3 days, 8 days, 14 days
Exposure Time Period above 93°F/34°C	Within 30 minutes
Accuracy	± 2°F/± 1°C of response temperatures
Tag Size	3.88 x 0.75 x 0.06 in (98.1 x 19 x 1.5 mm)
Adhesive	Pressure sensitive
Storage Conditions	Unused product must be stored below response temperatures and between 35-55% RH for optimal shelf life
Shelf Life	Two years from date of sale

Before



After



Model 51036

The WarmMark Duo Time-Temperature Indicator is a single use label typically applied to vaccines, pharmaceuticals, and blood products for monitoring conditions during storage, shipping and distribution. It has two response temperatures indicating accumulated time above 50°F/10°C, and brief temperature excursions above 93°F/34°C.

- Accurate time/temperature monitor
- Visual pass/fail confirmation of exposure to temperature excursions
- Irreversible color change indicates length of time above thresholds
- Calibrated to respond within ± 2°F/± 1°C
- Low cost, easy to use

Threshold Temp	Run-Out Times			
	Window 1	Window 2	Window 3	Window 4
50°F / 10 °C	3 days	8 days	14 days	-
93°F / 34°C	-	-	-	Within 30 mins

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0160 14D4



Product Specifications

TempDot[®] Plus Time-Temperature Label for Ascending Temperature

Threshold Temp	0°C/ 32°F
Stop Temp	-3°C/ 26°F
Cumulative Temp Exposure in Hours	½,1,2,4,8,12
Temperature Accuracy	± 1°C /2°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.58 in x 0.75 in x 0.02 in (40mm x 19mm x 0.5mm)
Start Button	Blister ~0.1in H (~2.5mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	2 years when stored as recommended
Moisture Resistance	Splashproof. Not suitable for immersion in water

Model 51050

0°C/32°F



Before



After

- Low cost label detects ascending temperature excursions
- Serial number on each label for traceability
- Irreversible, single-use time/temperature indicator
- Indicates cumulative exposure above temperature threshold in Degree Hours

How to Use:

The TempDot Plus provides an irreversible visual alert once the temperature ascends above the defined threshold value of the label.

- 1) Activation of the label must occur above 0°C/32°F. Squeeze the blister on the indicator to activate. Note: if the room temperature is not above 0°C/32°F, the TempDot must be heated above 0°C/32°F.
- 2) Once the label is activated, the “ON” window will be completely filled with colored dye indicating the label is active. Note: all of the dye in the START button must be squeezed out of the blister to fully activate the label. Labels that are not immediately used after activation need to be stored below the product stop temperature to prevent false indication of temperature abuse.
- 3) After activation, place the label into an environment that is at or below -3°C/26°F for a minimum of 1 hour.
- 4) Remove the adhesive liner from the back of the label and adhere it to the product. Note: the product to be monitored must already be below the 0°C/32°F.

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0164 16C1



Product Specifications

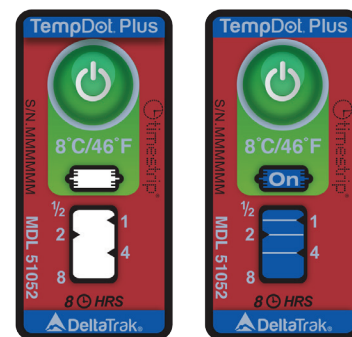
TempDot[®] Plus Time-Temperature Label for Ascending Temperature

Threshold Temp	8°C/ 46°F
Stop Temp	6°C/ 43°F
Cumulative Temp Exposure in Hours	½, 1, 2, 4, 8
Temperature Accuracy	± 1°C / 2°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.58" L x 0.75" H x 0.02" Thick (40mm L x 19mm H x 0.5mm Thick)
Start Button	Blister ~0.1" H (~2.5mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F (22°C) at 20-80% RH
Shelf Life	2 years when stored as recommended
Packaging	50 labels / package
Moisture Resistance	Splashproof. Not suitable for immersion in water

Model 51052

8°C/46°F

- Low cost label detects ascending temperature excursions
- Serial number on each label for traceability
- Irreversible, single-use time/temperature indicator
- Indicates cumulative exposure above temperature threshold in Degree Hours



Before

After

How to Use:

The TempDot Plus provides an irreversible visual alert once the temperature ascends above the defined threshold value of the label.

- 1) Activation of the label must occur above 8°C/46°F. Squeeze the blister on the indicator to activate. Note: if the room temperature is not above 8°C/46°F, the TempDot must be heated above 8°C/46°F.
- 2) Once the label is activated, the "ON" window will be completely filled with colored dye indicating the label is active. Note: all of the dye in the START button must be squeezed out of the blister to fully activate the label. Labels that are not immediately used after activation need to be stored below the product stop temperature to prevent false indication of temperature abuse.
- 3) After activation, place the label into an environment that is at or below 6°C/43°F for a minimum of 1 hour.
- 4) Remove the adhesive liner from the back of the label and adhere it to the product. Note: the product to be monitored must already be below the 8°C/46°F.

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0165 16B1



Product Specifications

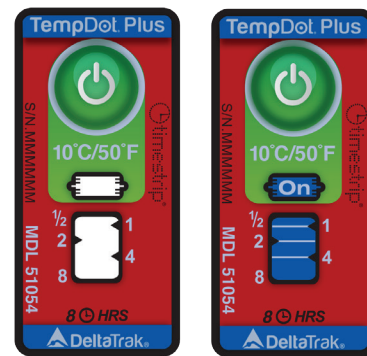
TempDot Plus Time-Temperature Label for Ascending Temperature

Threshold Temp	10°C/ 50°F
Stop Temp	8°C/ 46°F
Cumulative Temp Exposure in Hours	½, 1, 2, 4, 8
Temperature Accuracy	± 1°C /2°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.58" L x 0.75" H x 0.02" Thick (40mm L x 19mm H x 0.5mm Thick)
Start Button	Blister ~0.1" H (~2.5mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	2 years when stored as recommended
Packaging	50 labels / package
Moisture Resistance	Splashproof. Not suitable for immersion in water

Model 51054

10°C/50°F

- Low cost label detects ascending temperature excursions
- Serial number on each label for traceability
- Irreversible, single-use time/temperature indicator
- Indicates cumulative exposure above temperature threshold in Degree Hours



Before

After

How to Use:

The TempDot Plus provides an irreversible visual alert once the temperature ascends above the defined threshold value of the label.

- 1) Activation of the label must occur above 10°C/50°F. Squeeze the blister on the indicator to activate. Note: if the room temperature is not above 10°C/50°F, the TempDot must be heated above 10°C/50°F.
- 2) Once the label is activated, the "ON" window will be completely filled with colored dye indicating the label is active. Note: all of the dye in the START button must be squeezed out of the blister to fully activate the label. Labels that are not immediately used after activation need to be stored below the product stop temperature to prevent false indication of temperature abuse.
- 3) After activation, place the label into an environment that is at or below 8°C/46°F for a minimum of 1 hour.
- 4) Remove the adhesive liner from the back of the label and adhere it to the product. Note: the product to be monitored must already be below the 10°C/50°F.

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0167 16C1



Product Specifications

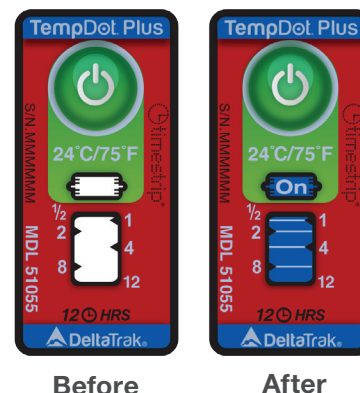
TempDot Plus Time-Temperature Label for Ascending Temperature

Threshold Temp	24°C/ 75°F
Stop Temp	18°C/ 64°F
Cumulative Temp Exposure in Hours	½,1,2,4,8,12
Temperature Accuracy	± 1°C /2°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.58" L x 0.75" H x 0.02" Thick (40mm L x 19mm H x 0.5mm Thick)
Start Button	Blister ~0.1" H (~2.5mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	2 years when stored as recommended
Packaging	50 labels / package
Moisture Resistance	Splashproof. Not suitable for immersion in water

Model 51055

24°C/75°F

- Low cost label detects ascending temperature excursions
- Serial number on each label for traceability
- Irreversible, single-use time/temperature indicator
- Indicates cumulative exposure above temperature threshold in Degree Hours



How to Use:

The TempDot Plus provides an irreversible visual alert once the temperature ascends above the defined threshold value of the label.

- 1) Activation of the label must occur above 24°C/75°F. Squeeze the blister on the indicator to activate. Note: if the room temperature is not above 24°C/75°F, the TempDot must be heated above 24°C/75°F.
- 2) Once the label is activated, the "ON" window will be completely filled with colored dye indicating the label is active. Note: all of the dye in the START button must be squeezed out of the blister to fully activate the label. Labels that are not immediately used after activation need to be stored below the product stop temperature to prevent false indication of temperature abuse.
- 3) After activation, place the label into an environment that is at or below 18°C/72°F for a minimum of 1 hour.
- 4) Remove the adhesive liner from the back of the label and adhere it to the product. Note: the product to be monitored must already be below the 24°C/75°F.

DeltaTrak manufactures products under an ISO 9001 registered quality management system

SS0168 16C1



Product Specifications

TempDot Plus Time-Temperature Label for Ascending Temperature

Threshold Temp	30°C/ 86°F
Stop Temp	25°C/ 77°F
Cumulative Temp Exposure in Hours	½,1,2,4,8,12
Temperature Accuracy	± 1°C /2°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.58" L x 0.75" H x 0.02" Thick (40mm L x 19mm H x 0.5mm Thick)
Start Button	Blister ~0.1"H (~2.5mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	2 years when stored as recommended
Packaging	50 labels / package
Moisture Resistance	Splashproof. Not suitable for immersion in water

Model 51056

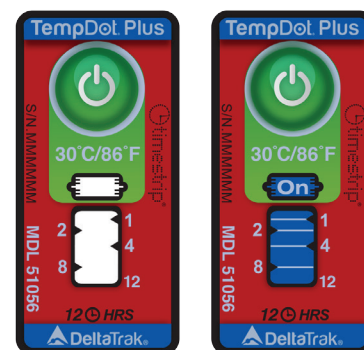
30°C/86°F

- Low cost label detects ascending temperature excursions
- Serial number on each label for traceability
- Irreversible, single-use time/temperature indicator
- Indicates cumulative exposure above temperature threshold in Degree Hours

How to Use:

The TempDot Plus provides an irreversible visual alert once the temperature ascends above the defined threshold value of the label.

- 1) Activation of the label must occur above 30°C/86°F. Squeeze the blister on the indicator to activate. Note: if the room temperature is not above 30°C/86°F, the TempDot must be heated above 30°C/86°F.
- 2) Once the label is activated, the "ON" window will be completely filled with colored dye indicating the label is active. Note: all of the dye in the START button must be squeezed out of the blister to fully activate the label. Labels that are not immediately used after activation need to be stored below the product stop temperature to prevent false indication of temperature abuse.
- 3) After activation, place the label into an environment that is at or below 25°C/77°F for a minimum of 2 hours.
- 4) Remove the adhesive liner from the back of the label and adhere it to the product. Note: the product to be monitored must already be below the 30°C/86°F.



Before

After

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0169 16C1



Product Specifications

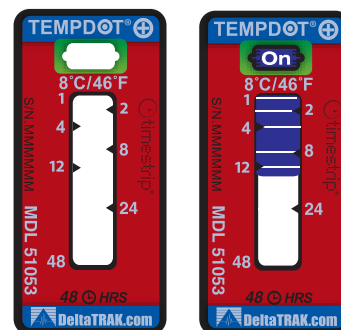
TempDot[®] Plus Time-Temperature Label for Ascending Temperature

Threshold Temp	8°C/ 46°F
Stop Temp	6°C/ 43°F
Cumulative Temp Exposure in Hours	1, 2, 4, 8, 12, 24, 48
Temperature Accuracy	± 1°C / 2°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.58" L x 0.75" H x 0.02" Thick (40mm L x 19mm H x 0.5mm Thick)
Start Button	Blister ~0.1" H (~2.5mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	2 years when stored as recommended
Packaging	50 labels / package
Moisture Resistance	Splashproof. Not suitable for immersion in water

Model 51053

8°C/46°F

- Low cost label detects ascending temperature excursions
- Serial number on each label for traceability
- Irreversible, single-use time/temperature indicator
- Indicates cumulative exposure above temperature threshold in Degree Hours



Before

After

How to Use:

The TempDot Plus provides an irreversible visual alert once the temperature ascends above the defined threshold value of the label.

- 1) Activation of the label must occur above 8°C/46°F. Squeeze the blister on the indicator to activate. Note: if the room temperature is not above 8°C/46°F, the TempDot must be heated above 8°C/46°F.
- 2) Once the label is activated, the "ON" window will be completely filled with colored dye indicating the label is active. Note: all of the dye in the START button must be squeezed out of the blister to fully activate the label. Labels that are not immediately used after activation need to be stored below the product stop temperature to prevent false indication of temperature abuse.
- 3) After activation, place the label into an environment that is at or below 6°C/43°F for a minimum of 2 hours.
- 4) Remove the adhesive liner from the back of the label and adhere it to the product. Note: the product to be monitored must already be below the 8°C/46°F.

DeltaTrak manufactures products under an ISO 9001 registered quality management system

SS0166 16C1



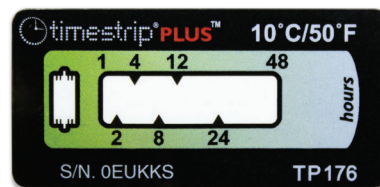
Product Specifications

TempDot. Plus Time-Temperature Label for Ascending Temperature

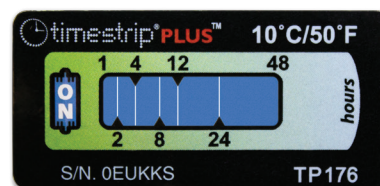
Threshold Temperature	10°C/ 50°F
Stop Temperature	8°C/ 46°F
Cumulative Temperature Exposure in Hours	1, 2, 4, 8, 12, 24, 48
Temperature Accuracy	± 1°C /2°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.58 in x 0.75 in (40mm x 19mm)
Start Button	Blister ~0.1 in H (~2.5 mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Recommended Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	Pre activation: 2 years Post Activation: 1 year or until temperature breach is indicated
Moisture Resistance	Splashproof. Not suitable for immersion in water

Model 51067

10°C/50°F



Before



After

- Irreversible, single-use time/temperature indicator
- Indicates up to 48 hours of accumulated temperature above 10°C/ 50°F
- Self-adhesive, apply directly to package or carton
- Ideal for monitoring refrigerated products
- Supply chain auditing, FSMA, FDA, HACCP compliance

How to Use:

The TempDot Plus provides an irreversible visual alert once the temperature ascends above the defined threshold value of the label.

- 1) Activation of the label must occur above 10°C/ 50°F. Squeeze the blister on the indicator to activate. Note: if the room temperature is not above 10°C/ 50°F, the TempDot must be heated above 10°C/ 50°F.
- 2) Once the label is activated, the "ON" window will be completely filled with colored dye indicating the label is active. Note: all of the dye in the START button must be squeezed out of the blister to fully activate the label. Labels that are not immediately used after activation need to be stored below the product stop temperature to prevent false indication of temperature abuse.
- 3) After activation, place the label into an environment that is at or below 8°C/46°F for a minimum of 1 hour.
- 4) Remove the adhesive liner from the back of the label and adhere it to the product. Note: the product to be monitored must already be below the 10°C/ 50°F.

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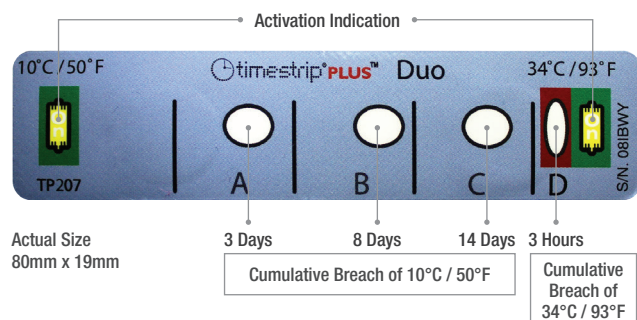
SS0211 16B3



Product Specifications

TempDot® Plus Duo

A temperature abuse indicator for vaccines



Model 51063

How long has this vaccine been kept above its maximum recommended storage temperature? Has it also been exposed to excessively high temperatures?

TempDot® Plus Duo provides a low cost and accurate answer to both questions. Duo is a small and self-adhering double temperature indicator. It monitors two ascending temperature thresholds in one label and indicates:

- If cold chain conditions have been compromised (breached 10°C/50°F) and if this abuse has lasted for 3 days (A), 8 days (B) or 14 days (C).
- The vaccine has been exposed to very high temperatures (34°C/93°F) and irreversibly records when this abuse has lasted for 3 hours.

Duo's technical specifications follow World Health Organization (WHO) recommendations for monitoring vaccine temperature and reflect the tolerances allowed for different vaccines. Duo can also be used to monitor supply chains for medicines or other products for which the specified time and temperature thresholds are relevant.

Duo is inert until activated so it can be stored safely at



Flexible Use and Storage	Duo is inert until activated, so it can be stored at ambient temperatures and activated when required in the field.
Reliable Evidence	Duo is single use, irreversible, and accurate to within +/-1°C/2°F.
Targeted Decision Making	Duo is small, light, and cost effective enough to support the monitoring of many packs within a consignment; pockets of temperature abuse can be identified.
Easy to Read	Duo is visually clear and easy to interpret so handlers can quickly and confidently recognise temperature abuse. Clear and visible monitoring may also encourage a greater duty of care.
Quality Assured	Duo is manufactured to ISO9001:2008; is process and batch validated, and each indicator has a unique serial number. It is patented, safe, and disposable.
Cost	Duo is a low cost solution that requires no power. It is a cost effective and practical replacement for data loggers.

room temperature and can be activated in the field.

Duo can be ordered from stock via our distributors, including small order sizes for samples/trials. Duo can be customized to combine different temperature thresholds or different time markers. Custom projects are subject to minimum order size, minimum technical specifications and additional cost. Please contact us for more information.

Product Specifications

How duo works

All TempDot® Plus Duo indicators work as follows. A mixture will melt from solid to liquid form when an ascending temperature threshold is breached and return to solid form if the temperature falls again to its freeze point (STOP temperature). When in liquid form, the mixture will move laterally through a porous membrane at a known rate. The progress of the liquid will be visible through a viewing window.

Once TempDot® Plus Duo is activated, if the temperature being monitored remains below the STOP temperature, the blue colour will not move. If the threshold is breached, the blue colour will progress to a viewing window with time markers. Each movement is irreversible so the cumulative time of any temperature breach is shown by how far the blue colour has moved along the time markers.

With Duo, the blue colour will completely fill window A after 3 days of a breach of 10°C, window B after 8 days, and window C after 14 days. A different blue formulation is contained in the 34°C indicator. It will melt and completely fill window D three hours following a breach of 34°C.

Specification

Type	Irreversible, single use
Activation Feature	2 manual activation buttons on the back – 1 for each temperature threshold. Both 'On' windows turn green.
Indication	Windows A, B, C or D turn blue if thresholds are breached for the time thresholds indicated.
Temperature & Time Thresholds (A-C)	Threshold of 10°C/50°F and STOP of 8°C/46°F. Time markers; 3 days (A), 8 days (B) and 14 days (C).
Temperature & Time Thresholds (D)	Threshold of 34°C/93°F and STOP of 30°C/86°F. Time marker; 3 hours.
Accuracy of Temperature	+/-1°C/2°F
Accuracy of Time	+/- 15% in isothermal conditions
Size	80mm x 19mm
Quality Assurance	Produced under ISO9001:2008

SS0186_pg2 of 3_15D1

Shipping & Handling

Recommended Storage	Room temperature: 22°C/72°F at 20-80% humidity. Cool, dark environment
Packaging	100 indicators per box. Labelled with expiry and batch number
Shipping Package Requirements	No special requirements as inert until activated
Protection	Splash proof
Traceability	Unique serial number on each indicator
Shelf Life	Inert: 2 years from manufacturing date. Post activation: Until shows breach/ 1 year.

Application - Duo

Duo can be applied directly onto product packaging or a vaccine monitoring card which clearly explains to the end user how to interpret the display windows. The example provided shows how the usage requirements of different vaccines can be accommodated by a single Duo label.

[illegible]

Duo on a vaccine monitoring card



Product Specifications

How to Use TempDot® Plus Duo

1. Storage- Inactive

Ideally, store at room temperature, 20-80% humidity & in a cool, dark environment. Duo is inert prior to activation. All the windows are white. Discard before use any indicator that does not have all its windows white.

2. How To Activate

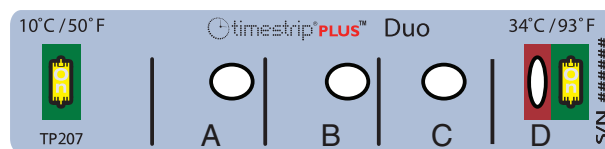
Activate the 34°C indicator first. Raise the temperature above 35°C (and not greater than 60°C) and fully press the button above D. The activation window on the right should turn green and reveal 'ON'. In the event that it doesn't, re-heat and press the button fully.

Then press the 10°C indicator button fully until the left side activation window turns green and 'ON' is revealed.

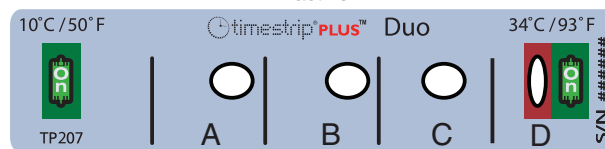
Within 5 minutes of activation, place Duo below 8°C for a minimum of 1 hour to ensure the liquid freezes again. Duo is then ready to use. You can adhere the indicator immediately to a package or carrying card, which is already below the STOP temperature of 8°C. Alternatively, place the activated indicator in an environment much colder than the STOP temperature for a short period of time and then attach it to the carrying card or package.

3. Review

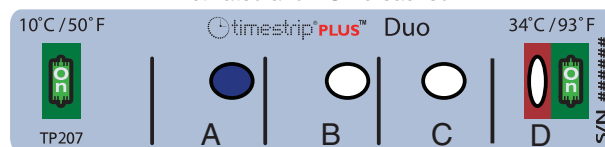
Once correctly activated, Window A will completely fill with blue if the threshold temperature of 10°C has been breached for 3 days, window B for 8 days, and window C for 14 days. D will completely fill with blue if 34°C has been breached for 3 hours. Duo shows clearly if vaccines or medicines have been exposed to temperature abuse, and for how long.



Inactive

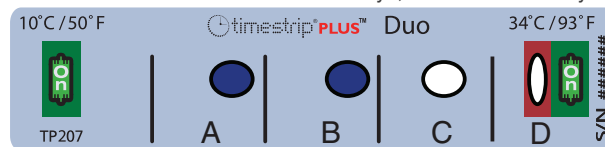


Activated and NOT breached



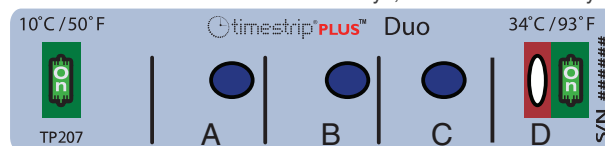
Breached 10°C

Breaches of 10°C occurred for 3 days, but less than 8 days



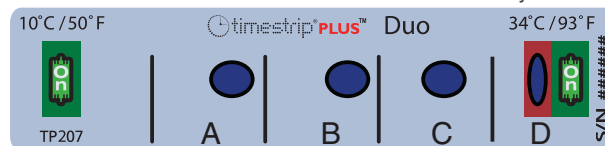
Breached 10°C

Breaches of 10°C occurred for 8 days, but less than 14 days



Breached 10°C

Breaches of 10°C occurred for at least 14 days.



Breached 34°C

Breaches of 34°C occurred for at least 3 hours.

Product Specifications

ThermoTrace TTI Pre-Configured Labels

Model Number:	55100	55101
Threshold Temperature	32°F/0°C	41°F/5°C
Quality Code Events		
Event 1	Label Not Activated (START tab not pulled)	Label Not Activated (START tab not pulled)
Event 2	Label Activated (no temperature abuse)	Label Activated (no temperature abuse)
Event 3	Threshold Temperature 32°F / 0°C has been reached (±15 minutes)	Threshold Temperature 41°F / 5°C has been reached (±15 minutes)
Event 4	Accumulated temperature abuse of 4 Hours above 32°F / 0°C (±30 minutes)	Accumulated temperature abuse of 4 Hours above 41°F / 5°C (±30 minutes)
Accuracy: Temperature	± 2°F/1°C, ±30 minutes	
Dimensions	47mm x 78 mm (1.8" x 3")	
Shelf Life, Unactivated	1 year+, if under recommended storage conditions	
Recommended Storage, Unactivated	6°F/3°C below response temperature, between 20-60% RH, away from heat sources (vents, pipes, etc.).	
Effective Shelf Life After Activation	3 Years	



Model 55100

32°F/0°C

Model 55101

41°F/5°C

- Patented smart barcode system
- Tracks cumulative temperature above threshold
- Irreversible barcode change provides discreet temperature data
- Simple pull-tab activation provides a positive 'ON' reading
- Serial numbers on each label for traceability
- Link serial number to customer order number or product UPC code
- Download free ThermoTrace Scanner application
- Scan with barcode readers or Smart phones (iPhone, Android)
- Standard, pre-configured messages sent back to scanner

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SS0124 15C1



Product Specifications

ThermoTrace TTI Prime Labels

Model Number:	55100P	55101P
Threshold Temperature	32°F/0°C	41°F/5°C
Quality Code Events		
Event 1	Label Not Activated (START tab not pulled)	Label Not Activated (START tab not pulled)
Event 2	Label Activated (no temperature abuse)	Label Activated (no temperature abuse)
Event 3	Threshold Temperature 32°F / 0°C has been reached (±15 minutes)	Threshold Temperature 41°F / 5°C has been reached (±15 minutes)
Event 4	Accumulated temperature abuse of 4 Hours above 32°F / 0°C (±30 minutes)	Accumulated temperature abuse of 4 Hours above 41°F / 5°C (±30 minutes)
Accuracy: Temperature	± 2°F/1°C, ±30 minutes	
Dimensions	47mm x 78 mm (1.8" x 3")	
Shelf Life, Unactivated	1 year+, if under recommended storage conditions	
Recommended Storage, Unactivated	6°F/3°C below response temperature, between 20-60% RH, away from heat sources (vents, pipes, etc.).	
Effective Shelf Life After Activation	3 Years	



Model 55100P

32°F/0°C

Model 55101P

41°F/5°C

- Includes all basic features of ThermoTrace TTI Pre-Configured Labels (Models 55100, 55101)
- User defined Quality Code messages after scanning label
- User defined email and text message alerts to selected personnel
- Access to data on ColdTrak Data Central cloud server:
 - Label serial number
 - Quality Code reading
 - Date of scan
 - Reader identification
 - Reading location
 - Delivery note
 - Monthly statistical reports

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

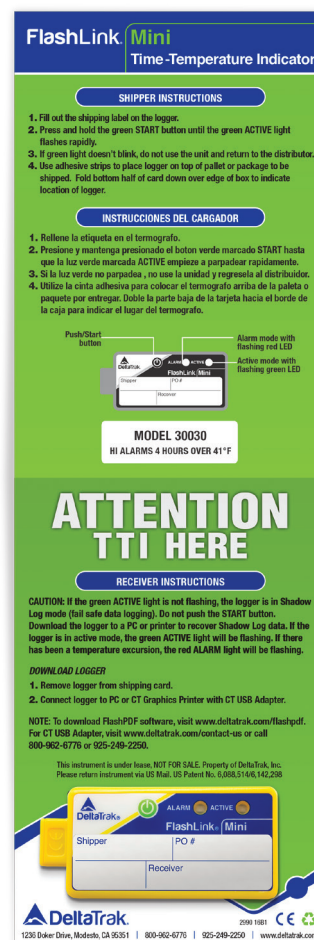
SS0184 15C1



Product Specifications

FlashLink Mini TTI Time-Temperature Indicator

Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Threshold	41°F (5°C)
Temperature Accuracy	±1.0°F/0.5°C
Single Event Alarm	Accumulated temperature abuse of 4 hours above 41°F /5°C
LED Indicators	Flashing Green: Active, no alarm Flashing Red: Alarm triggered
Battery	Coin Cell Lithium Battery
Dimensions	2.68" L x 1.27" W x 0.45" H (68.07mm L x 32.25mm W x 11.43mm H)
Casing	ABS plastic
Weight	0.64 oz. (18.14g)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, Calibration Traceable to N.I.S.T., RoHS Compliant,
IP Rating	IP56
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation



Model 30030

- Compact, single-use, time temperature indicator
- Monitors temperature during transport to meet FSMA and FDA requirements
- Immediate visual pass/fail indicator
- Alarm event triggered after 4 hours of temperature abuse
- Mounted on high-visibility locator card
- Post-trip evaluation service available

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0213_16C2



Product Specifications

FlashLink Certified Alarm Thermometer

Internal Sensor Range	14°F to 122°F (-10°C to 50°C)
External Probe Range	-58°F to 158°F (-50°C to 70°C)
Accuracy	±1.0°F from 14°F to 77°F (±.5°C from -10°C to 25°C); ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Sampling Rate	10 seconds
Display Resolution	0.1°F/°C
Display Size	1.8in W x 0.87in H (46mm W x 22mm H)
Instrument Size	3.15in W x 2.05in H x 0.67in D (80mm W x 52mm H x 17mm D)
Case Material	ABS polymer, resistant to chemicals and high impact
External Probe Type/Size	Stainless Steel, 0.7in L x 0.2in Dia (17.8mm L x 5mm Dia)
External Sensor Bottle	Polystyrene with PE cap, 1.6in L x 0.79in Dia (41mm L x 20mm Dia)
External Sensor Buffer	Propylene glycol (GRAS classified – Generally Recognized As Safe)
External Sensor Cable	9.84ft x 0.08in Dia (3 meters x 2mm Dia)
Battery	Coin Cell Lithium Battery, user replaceable
Battery Life	10,000 hours of continuous use
Certification	CE mark, NIST traceable, WEEE



Models

12215	Includes Manufacturer's Certificate of Compliance traceable to NIST
12224	Includes NIST Calibration Certificate & Manufacturer's Certificate of Compliance
12225	Includes ISO 17025 Calibration Certificate & Manufacturer's Certificate of Compliance

- Ideal for monitoring vaccines and common fluids stored in refrigerators, freezers, and cold holding display cases
- More than 1 year of continuous monitoring
- Internal sensor for ambient air temperature
- External sensor with high/low alarm setting
- Switchable internal/external temperature display
- Glycol buffered probe emulates products and prevents false alarms during normal use
- Minimum/Maximum memory stores lowest/highest readings
- Audible alarm for temperature excursions
- Jumbo LCD with back light
- Switchable °F/°C scale
- Magnetic attachment and fold-away stand

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

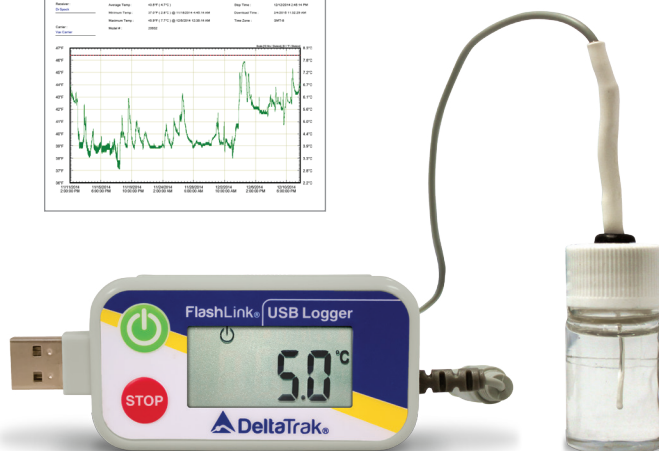
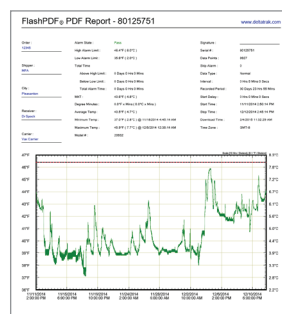
SS0122 16B1



Product Specifications

FlashLink Certified Vaccine USB Data Logger

Measurement Range	-40°F to 104°F (-40°C to 40°C)
Display Resolution	0.1°F/°C
Accuracy within Normal Operating Range	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C)
Data Capacity	32,496 data points
Data Download Time	2 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Coin Cell Lithium battery, % remaining power indicator on LCD
Dimensions/Body	1.575" x 3.189" x .575" (40mm x 81mm x 15mm)
Logger Casing	ABS plastic
External Sensor	5mL PETG* sterile bottle – 21CFR compliance information available, 9.84 ft./3m cable
Glycol Buffer	Propylene glycol (GRAS** classified)
Weight	2.56 oz. (70 grams)
Certification	CE Mark, NIST traceable, RoHS Compliant
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 (with silicone cap)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
Shelf Life	2 Years
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	Direct USB connection to PC
*Polyethylene terephthalate copolymer **Generally Recognized As Safe	



Model

20932	Includes Manufacturers Certificate of Compliance traceable to NIST
20938	Includes ISO 17025 Calibration Certificate from A2LA accredited lab, valid for 2 years

- WHO prequalified under PQS Code E006/026
- Compatible with FDA and CDC guidelines
- 21 CFR Part 11 compliant
- Single external temperature sensor
- Glycol buffered probe emulates products and prevents false alarms
- Ideal for monitoring storage refrigerators and freezers
- User programmable: logging intervals, hi/low alarms
- Large, easy to read LCD
- Red flashing LED alarm for temperature excursions
- Low battery indicator on LCD

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

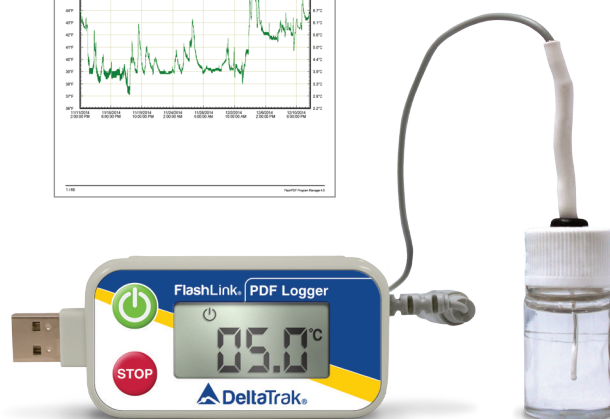
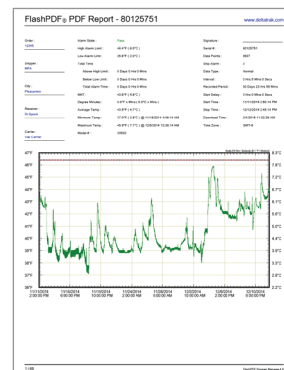
SS0141_16C2



Product Specifications

FlashLink Vaccine USB PDF Data Logger

Sensor Measurement Range	-40°F to 104°F (-40°C to 40°C)
Operating range	-4°F to 122°F (-20°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C) ±2.0°F above 77°F (±1.0°C above 25°C) ±2.0°F below 14°F (±1.0°C below -10°C)
Data Capacity	32,496 data points
Data Download Time	5 seconds typical for 3823 points
Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Single AA Lithium battery, LCD % remaining power indicator
Dimensions/Body	1.575" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
External Sensor	Thermistor in 5mL PETG* Sterile Bottle - 21CFR compliance information available, 3 meter cable with quick disconnect
Glycol Buffer	Propylene glycol (GRAS** classified)
Weight	3.2 oz. (90.7 grams)
Certification	CE Mark, NIST traceable, Manufacturer's Certificate of Compliance, RoHS compliant
FAA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 (with silicone cap)
Storage Conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	Direct USB connection to PC
*Polyethylene terephthalate copolymer, **Generally Recognized As Safe	



Model 40525

- Single channel, external sensor in glycol bottle
- Automatically generates PDF report and CSV file
- Ideal for monitoring vaccines and liquid pharmaceuticals
- User programmable: manual or auto start, logging intervals, hi/low alarms
- Quick disconnect cable to download logger
- Glycol buffered sensor emulates products and prevents false alarms
- Compatible with FDA and CDC guidelines
- Low battery indicator on LCD
- 21 CFR Part 11 compliant

DeltaTrak manufactures products under an
ISO 9001:2008 registered quality management system

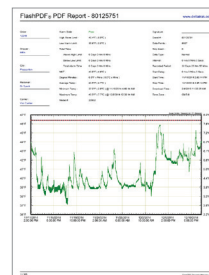
SS0203_16C2



Product Specifications

FlashLink. Certified Vaccine USB PDF Data Logger

Sensor Measurement Range	-40°F to 104°F (-40°C to 40°C)
Temperature Resolution	0.1°F/°C
Accuracy within Normal Operating Range	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C)
Data Capacity	32,496 data points
Data Download Time	5 seconds typical for 3823 points
Multiple Alarm Levels	High & low levels and extreme high and low levels displayed on LCD
Battery	Single AA Lithium battery, LCD % remaining power indicator
Dimensions/Body	1.575" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
External Sensor	Thermistor in 5mL PETG* Sterile Bottle - 21CFR compliance information available, 3 meter cable with quick disconnect
Glycol Buffer	Propylene glycol (GRAS** classified)
Weight	3.2 oz. (90.7 grams)
Certification	CE Mark, NIST traceable, Manufacturer's Certificate of Compliance, RoHS compliant, 2 year 17025 calibration certificate
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 (with silicone cap)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
Shelf Life	2 years
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashPDF Program Manager software
Download Requirements	Direct USB connection to PC
*Polyethylene terephthalate copolymer, **Generally Recognized As Safe	



Model 40526

Includes ISO 17025 Calibration
Certificate from A2LA accredited
lab, valid for 2 years

- WHO prequalified under PQS Code E006/026
- Compatible with FDA and CDC guidelines
- 21 CFR Part 11 compliant
- Single channel, external sensor in glycol bottle
- Automatically generates PDF report and CSV file
- Glycol buffered sensor emulates products and prevents false alarms
- Ideal for monitoring vaccines and liquid pharmaceuticals during storage
- Low battery indicator on LCD
- Quick disconnect cable to download logger
- User programmable: manual or auto start, logging intervals, hi/low alarms
- Scroll through recorded data on LCD

DeltaTrak manufactures products under an
ISO 9001:2008 registered quality management system

SS0207_16C2



Product Specifications

FlashTrak® Wireless Refrigerator Monitoring System (WRM)

Probe Measurement Range	-40°F to 185°F (-40°C to 85°C)
Operating Range	-22°F to 140°F (-30°C to 60°C)
Programmable Sample Interval	1 to 60 minutes
Display Resolution	0.1°F / °C
Accuracy Within Normal Operating Range	±1.0°F from 14°F to 77°F (±0.5°C from -10°C to 25°C)
RF Bands	915 MHz 868 MHz ISM Band (available by special order)
Power Source	110V AC/220V AC
Backup Battery	5 AA NiCad batteries
Operating Life (on Backup Battery)	30 hours
Data Capacity (on Backup Battery)	6400 data points, 1M data points on optional SD card
Battery Shelf Life (non-operating)	18 months
Weight	21.9 oz (621g)
Dimensions	5.1 in x 7.1 in x 2.0 in (129.5mm x 180.3mm x 50.8mm)
Casing	ABS Plastic
LCD Display	2 lines, 60 characters per line, backlit red, green & blue
Alarm	Audio buzzer
Buttons	Green - Info Red - Alarm/cancel
Data Communication	Cell phone data service GSM/3G (backup over Wi-Fi)
Certification	FCC, WEEE, CE Mark, RoHS compliant



Model 22129

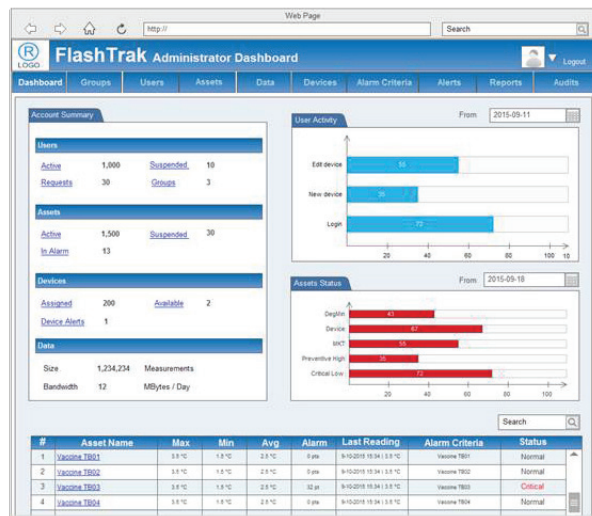
- Two channel logging capability
- Includes one sensor with blunt tip probe
- Optional second sensor: 20963 (blunt tip) or 20964 (glycol bottle)
- Data transmitted through cellular connections or Wi-Fi
- Cloud-based application for system administration, data collection and analysis

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0195 Page1 of 2 16B3



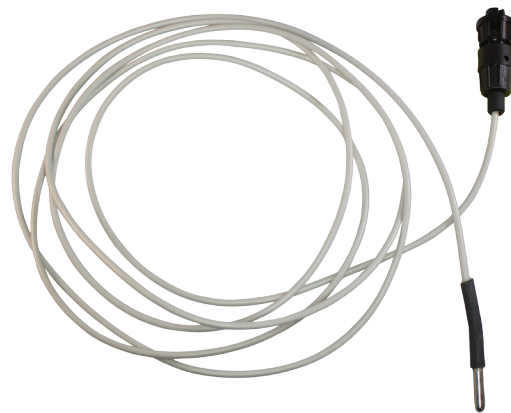
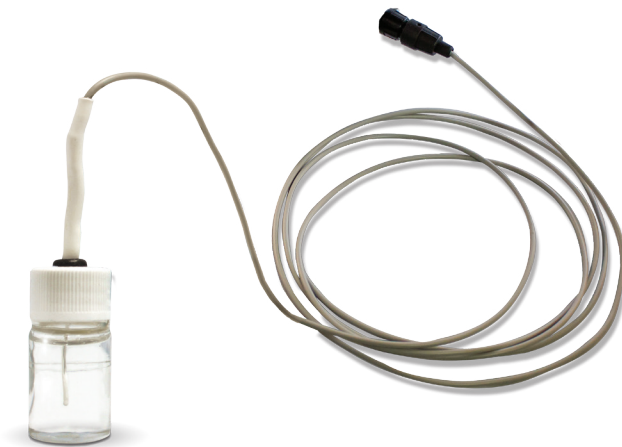
Product Specifications



Cloud based application

The Wireless Refrigerator Monitoring system is a 24/7 remote monitoring system which allows users to access time and temperature data anywhere in the world. The centralized cloud based administration system is 21 CFR Part 11 compliant and provides automated notification of alarms. The web portal requires a password to review temperature history and excursions. All data can be exported as needed by an administrator for data analytics.

FlashTrak® WRM - Wireless Refrigerator Monitoring System Probes



Model 20964	WRM Sensor In Glycol Bottle
Sensor	Thermistor in glycol bottle
Bottle	5mL PETG* sterile bottle – 21CFR compliance information available, 9.84 ft./3m cable
Glycol Buffer	Propylene glycol (GRAS** classified)
Measurement Range	-40°F to 104°F (-40°C to 40°C)

Model 20963	WRM Blunt Tip Probe
Probe Size	0.15in Dia x 0.98in L (3.8mm Dia x 25mm L), 3.28 ft (1m) Teflon cable
Measurement range	-40°F to 185°F (-40°C to 85°C)

*Polyethylene terephthalate copolymer **Generally Recognized As Safe

Product Specifications

TempDot Vaccine Monitor Card

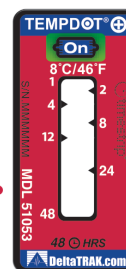
Operating Range and Active Life (Period of time in which card will detect temperature events)	Temperature Range	Active Life
	2°C to 8°C / 36°F to 46°F	6 months
	8°C to 22°C / 46°F to 72°F	7 days
Threshold Temperatures	Freeze Indicator Label for Descending Temp	TempDot Plus Label for Ascending Temp
	2°C / 36°F	8°C / 46°F
Recommended Operating Temperature Range	2°C to 8°C / 36°F to 46°F	
Temperature Accuracy	±1°C/2°F	
TempDot Plus Response to Cumulative Temperature Exposure Above 8°C / 46°F in Degree Hours	1, 2, 4, 8, 12, 24, 48 Hours (± 15% time under isothermal conditions)	
Freeze Indicator Response to Exposure Below 2°C / 36°F	Immediate color change from green to red	
Card Size	95 mm W x 125 mm H / 3.7 in W x 4.9 in H	
Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 5°C to 22°C/41°F to 72°F at 20-80%RH DO NOT FREEZE	
Shelf Life	2 years, when stored as recommended	
Packaging	50 cards / package	

TempDot Vaccine Monitor

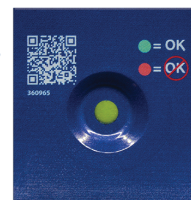
Supplier Name	
Shipment Date	
Vaccine Type	

Attached are two temperature indicators to verify the in-transit temperature of vaccines. Indicates temperature exposure, not vaccine quality. TempDot® labels are validated against NIST traceable standards.

Ascending accumulative temperature abuse indicator
To activate, press blister button on back



Descending temperature abuse indicator



See back of card for instructions on how to confirm activation and how to read temperature indicators.



P.O. Box 398 Pleasanton, CA 94566 USA
(925)249-2250 | (800)962-6776 | www.deltatrac.com

Model 51060

- Single-use, irreversible temperature indicator
- Monitor refrigerated environments during shipping, storage, handling
- Immediate visual confirmation of exposure to temperature excursions
- Easy interpretation of results by receiver or end user
- Assists with shelf life, quality, and efficacy decisions
- Identify cold chain problems

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0174 15H1



Product Specifications

FlashLink 2.4 GHz Wireless Receiver

Operating Temperature Range	-4°F to +122°F (-20°C to +50°C)
Frequency Range	2.405 to 2.475 GHz, IEEE 802.15.4 PHY compliant
Transmit	+13.0 dBm (including 2.2 dBi gain of the antenna)
Receive	-103.0 dBm
Typical Range	indoor: 164 feet (50m), outdoor: 328 feet (100m)
Battery Backup Life	5 days
Interface	RS232
Backup Battery	3 rechargeable AA nickel metal hybrid
Antenna	External omni-directional swivel antenna, SMA connector
Waterproof Rating	IP20
Mount	4 hole screw mount
Weight	8.2 oz (232 g)
Color	White
Dimension	2.0 x 2.7 x 3.9 inch (50.0 x 68.0 x 100.0 mm)
Power Source	External, 6.0 – 12.6 V, 500 mA
Certification	CE mark, RoHS
Programming & Downloading	Direct USB connection to PC, FlashPDF Program Manager software (order PN 20412) or USB Program Manager software (PN 20239), and Adobe Reader 7.0 or greater



Model 20170

- Network control module, enables all communication between RFID components and back office system
- Mesh networking technology optimizes data transfer
- Self configuring and fault-tolerant to ensure quality communication (Real Time Location System)
- Easily reprogrammable for firmware updates
- Internal back-up power source

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0045 14A1C



Product Specifications

FlashLink 2.4 GHz Wireless Repeater

Operating Temperature Range	-40°F to +185°F (-40°C to +85°C)
Frequency Range	2.405 to 2.475 GHz, IEEE 802.15.4 PHY compliant
Transmit	+13.0 dBm (including 2.2 dBi gain of the antenna)
Receive	-103.0 dBm
Typical Range	Indoor: 164 feet (50m), Outdoor: 328 feet (100m)
Battery Backup Life	5 days
Backup Battery	3 rechargeable AA nickel metal hybrid batteries
Antenna	External omni-directional swivel antenna, SMA connector
Waterproof Rating	IP65
Mount	4 hole screw mount
Weight	8.2 oz (232 g)
Color	White
Dimension	2.0 x 2.7 x 3.9 inch (50.0 x 68.0 x 100.0 mm)
Power Source	External, 6.0 – 12.6 V, 500 mA
Certification	CE mark, RoHS, FCC ID



Model 20171

- Wireless data transport module, 3rd generation active RFID
- Mesh networking technology optimizes data transfer
- Self configuring and fault-tolerant to ensure quality communication (Real Time Location System)
- Remote updating with firmware updates
- Internal back-up power source

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0046 14A1



Product Specifications

FlashLink 2.4 GHz Wireless RF Logger - Temperature

Measurement Range	-40°F to 185°F (-40°C to 85°C)
Resolution	0.0625°C
Accuracy	± 0.9°F (±0.5°C) from -13°F to 185°F (-25°C to 85°C) ± 1.8°F (±1.0°C) from -40°F to 185°F (-40°C to 25°C)
Battery	2 AAA lithium batteries, ~3 yr life
Dimension	2.3 x 2.2 x 0.5 inch (59.6 x 56.6 x 14.0 mm)
Weight	1.5 oz (44 g)
Antenna	Integrated on PCB, Omni-directional
Frequency Range	2.405 to 2.475 GHz, IEEE 802.15.4 PHY compliant
Transmit	+4.6 dBm (Max. radiated power EIRP)
Receive	+85.0 dBm @ 1%PER
Typical Range	Indoor: 82 feet (25m) Outdoor: 164 feet (50m)
Reporting Rate	User configurable
Certification	CE mark, RoHS, FCC ID, WEEE
Waterproof Rating	IP67



Model 20172

- Wireless temperature monitoring, active RFID sensor/logger
- User -configurable monitoring parameters includes time intervals, security and alerts
- IP67 waterproof casing with single mount point]
- Back-up temperature logging ensures continuous monitoring even during communication interruption

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0047 14E1



Product Specifications

FlashLink 2.4 GHz Wireless RF Logger - Temperature & Humidity

Measurement Range	Temperature: -40°F to 185°F (-40°C to 85°C); Humidity: 10% to 90%RH
Resolutions	Temperature: 0.0625°C Humidity: 0.0244%RH
Temperature Accuracy	$\pm 0.9^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$) from -13°F to 185°F (-25°C to 85°C) $\pm 1.8^{\circ}\text{F}$ ($\pm 1.0^{\circ}\text{C}$) from -40°F to 185°F (-40°C to 25°C)
Humidity Accuracy	$\pm 3.5\%\text{RH}$ from 20%RH to 80%RH @25°C, $\pm 5\%\text{RH}$ at <20%RH or >80%RH
Hysteresis Error	1%
Long Term Drift	0.5%
Response Time	30 seconds
Battery	2 AAA lithium batteries, ~3 yr life
Dimension	2.3 x 2.2 x 0.5 inch (59.6 x 56.6 x 14.0 mm)
Weight	1.5 oz (44 g)
Antenna	Integrated on PCB, Omni-directional
Frequency Range	2.405 to 2.475 GHz, IEEE 802.15.4 PHY compliant
Transmit	+4.6 dBm (Max. radiated power EIRP)
Receive	+85.0 dBm @ 1%PER
Typical Range	Outdoor: 164 feet (50m)
Reporting Rate	User configurable, typical 5 minute interval
Certification	CE, RoHS, FCC ID, WEEE



Model 20173

- Wireless temperature and humidity monitoring, active RFID sensor/logger
- Real Time Location System (RTLS)
- System automatically locates and self registers all components
- User-configurable monitoring parameters includes time intervals, security and alerts
- Back-up temperature and humidity logging ensures continuous monitoring even during communication interruption
- Red LED indication for active mode
- 2MB file system allows 4 week data logging sample and user files to be stored
- Easy mount with a single screw

Hysteresis: The hysteresis value is the difference of measured values of the same sensor at a certain log point accruing from dry environment on one hand and humid environment on the other hand – giving enough dwell time. In other words, humidity sensors carry some memory of conditions experienced in recent past. Sensors with dry history carry some negative offset while sensors with humid history carry some positive offset. Hysteresis appears due to composition and design of the sensor element.

Long Term Drift: The aging of the sensor element may lead to drift of the measured value compared to reference. Such a long term drift is about random – it may move to the upper or lower side or may change direction in the course of time. The long term drift value is a maximal limit for such drift per year.

Test results are based on a reference meter with 0.8%RH accuracy

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

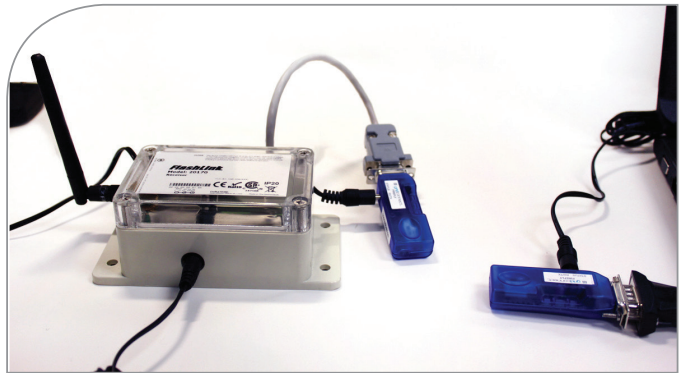
SS0048 15E1



Product Specifications

FlashLink 2.4 GHz Wireless Receiver RF Bluetooth Range Extender

Serial Interface	
Data Rates	1200, 2400, 4800, 9600, 19.2k, 38.4k, 57.6k, 115.2k, 230k
Characters	7 or 8 data bits
Parity	odd, even, or none
Stop Bits	1 or 2
Control Signals	CTS, RTS
Flow Control	Hardware (RTS/CTS) or None
Connector	DB9 - DTE (male) or DCE (female)
Bluetooth Interface	
Protocol	Bluetooth Specification 2.0 (with high EDR data rate!), compatible with 1.1 and 1.2,
Connection Modes	Master, Slave, Instant Cable Replacement
Profiles	Serial Port Profile (SPP)
Security	FHSS (Frequency Hopping Spread Spectrum)
Radio	Class 1 Bluetooth; Up to 330 feet (100 meters)
Dimensions, Weight	L 2.3" x W 0.8" x H 0.5"; 0.6 oz. without power supply
Operating Temp.	-40°C to 70°C
Power Supply	+5V external power supply (included), 4-11 VDC 50mA max



Model 20188

- Reduces bottlenecks and improves the reliability of the entire network
- No software or drivers required
- Distance range of 330 feet (100 meters)
- Status LED's: Transmit/Receive (TX/RX)
Data, Power, Connection Status

DeltaTrak manufactures products under an ISO 9000 registered quality management system

SS0049 13K1



Product Specifications

FlashTrak Telematics Facility Control System (FCS)

Operating Range	32°F to 160°F (0°C to 72°C)
Radio Frequency Range	Up to 250M (820 ft) line of sight
RF Bands	915 MHz 868 MHz ISM Band (available by special order)
Power Source	110V AC/220V AC
Backup Battery	2 AA Lithium Pack
Antenna	External omnidirectional fixed antenna
Weight	36.8 oz (1,043 g)
Enclosure Dimensions	266mm x 140mm x 70mm (10.5in x 7.75 in x 2.75 in)
Enclosure Type	NEMA 4, IP64
Android Application	FlashTrak
Data Communication	Cell phone data service GSM/3G
Data Plan Service	M2M (Machine to Machine)
Web-Based Application	ColdTrak Data Central
Certification	FCC, RoHS, WEEE, CE



Models	Model Number
In-Transit	22118
Facility	22119

- Controller/receiver for FlashTrak Telematics System
- Data automatically transferred to cloud-based ColdTrak Data Central
- Frequency hopping capabilities across 50 channels to minimize interference
- Data transmitted through cellular connections
- ColdTrak.com easily integrates with third party ERP (Enterprise Resource Planning) systems
- Supports FlashTrak RF In-Transit Data Logger

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0162 16B4



Product Specifications

FlashTrak[®] TMX Data Logger

Measurement Range	-40°F to 158°F (-40°C to 70°C)
Operating Range	-40°F to 158°F (-40°C to 70°C)
Radio Frequency Range	up to 250M (820 ft) line of sight
RF Bands	915 MHz 868 MHz ISM band (available by special order)
Programmable Measurement Interval	5 minute default
Resolution	0.2°F (0.1°C)
Accuracy	±1.0°F from -4°F to 113°F (±0.5°C from -20°C to 45°C) ±4°F above 113° (±2°C above 45°C) ±2°F below -4° (±1°C below -20°C)
Data Capacity	2,730 data points
Power Source	2 AA Lithium Pack
Battery Backup	1 AA Lithium
Battery Life	Up to 1.5 yrs 5 yr shelf life
Antenna	External omnidirectional fixed antenna
Weight	14 oz (397 g)
Dimensions	148mm x 171mm x 34mm (10.5 in x 7.75 in x 2.75 in)
LED Indicator	Red – Sending data
Button	Single user button
Waterproof Rating	IP65
Certification	FCC, CE, NIST, RoHS, WEEE



Model 22080

- Wireless data logger for FlashTrak Telematics System
- Probeless product temperature monitoring with Product Emulation Tool through ColdTrak.com
- Alert notification with two high (high & extreme high) and two low (low & extreme low)
- Secure mounting bracket

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0156 15G1



Product Specifications

FlashTrak[®] Telematics Data Logger

Measurement Range	-22°F to 140°F (-30°C to 40°C)
Radio Frequency Range	up to 250M (820 ft) line of sight
RF Bands	915 MHz 868 MHz ISM band (available by special order)
Sample Interval	Factory programmable. Default setting: 5 min.
Resolution	0.2°F (0.1°C)
Accuracy	±0.3°C for 12 months after calibration
Data Capacity	2,730 data points
Power Source	MnO ₂ Battery
Battery Backup	AAA Lithium
Battery Life	up to 2.5 yrs 5 yr shelf life
Weight	2.65 oz
Dimensions	65mm x 50mm x 36mm (2.56 in x 1.96 in x 1.41 in)
LED Indicator	Green – Sending data
Waterproof Rating	IP67
Certification	FCC, CE, RoHS, WEEE, NIST



Model 22081

- Wireless data logger for FlashTrak Telematics System
- Non-invasive internal product monitoring with Product Emulation
- Data visible 24/7 on ColdTrak Data Central cloud service
- Alert notifications with four set points: high and extreme high, low and extreme low
- Security wall mount bracket

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0161 16C1



Product Specifications

FlashTrak Telematics Temperature and Humidity Data Logger

Temperature Measurement Range	-40°F to 113°F (-40°C to 45°C)
Temperature Accuracy	±1.0°F (0.5°C) from -4.0°F to 113°F (-20°C to 45°C) ±2.0°F (1.0°C) from -40°F to -4°F (-40°C to -20°C)
Humidity Measurement Range	0% to 100% RH
Humidity Accuracy	±3% from 20% to 80% RH otherwise ±5%
Radio Frequency Range	up to 250M (820 ft) line of sight
RF Bands	915 MHz 868 MHz ISM band (available by special order)
Sample Interval	Factory programmable. Default setting: 5 min.
Temperature Resolution	0.2°F (0.1°C)
Relative Humidity Resolution	0.4% RH from 10% to 100%
Data Capacity	2,730 data points
Battery	Lithium Battery
Battery Life	up to 2.5 yrs 5 yr shelf life
Weight	2.65 oz
Dimensions	65mm x 50mm x 36mm (2.56 in x 1.96 in x 1.41 in)
LED Indicator	Green – Sending data
Certification	FCC, NIST traceable, CE mark, RoHS compliant, WEEE



Model 22104

- Wireless RF data logger for FlashTrak Telematics System
- Non-invasive internal product monitoring with Product Emulation
- Data visible 24/7 on ColdTrak Data Central cloud service
- Alert notifications with four set points: high and extreme high, low and extreme low
- RH accuracy and response 30 minutes

Do not expose humidity sensor to solvents

Accessory: Data logger cradle with security bracket (model 22111)

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0198 16C1



Product Specifications

FlashTrak[®] Telematics Data Logger with External Probe

Probe Measurement Range	-40°F to 104°F (-40°C to 40°C)
Operating Range	-22°F to 140°F (-30°C to 40°C)
Radio Frequency Range	up to 250M (820 ft) line of sight
RF Bands	915 MHz 868 MHz ISM band (available by special order)
Sample Interval	Factory programmable. Default setting: 5 min.
Resolution	0.2°F (0.1°C)
Accuracy	±1.0°F (±0.5°C) from -40°F to 86°F (-40°C to 30°C) ±2.0°F (±1.0°C) above 86°F (30°C)
Data Capacity	2,730 data points
Power Source	Lithium Battery
Battery Life	up to 2.5 yrs 5 yr shelf life
Weight	2.65 oz
Logger Dimensions	65mm x 50mm x 36mm (2.56 in x 1.96 in x 1.41 in)
Probe/Cable Dimensions	101mm L x 3.5mm D (3.98 in L x 0.14 in D) with 2.899m (9.5 ft) Teflon cable
LED Indicator	Green – Sending data
Waterproof Rating	IP67
Certification	FCC, CE, RoHS, WEEE, NIST



Model 22105

- Wireless data logger for FlashTrak Telematics System
- Sharp tip probe for monitoring internal product temperature
- Data visible 24/7 on ColdTrak Data Central cloud service
- Alert notifications with four set points: high and extreme high, low and extreme low

Accessory: Data logger cradle with security bracket (model 22111)

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0192 16C1



Product Specifications

FlashTrak[®] TMX Repeater

Operating Range	-4°F to 113°F (-20°C to 45°C)
Radio Frequency Range	Up to 250M (820 ft) line of sight
RF Bands	915 MHz 868 MHz ISM Band (available by special order)
Power Source	110/220V AC (Wall Adapter Included)
Backup Battery	2 AA Lithium Pack
Battery Backup Life	Up to 1.5 yrs 5 yr shelf life
Antenna	External omnidirectional fixed antenna
Weight	14.9 oz (423 g)
Dimensions	148mm x 171mm x 34mm (10.5 in x 7.75 in x 2.75 in)
LED Indicator	Green – Power and battery connected Red – Sending data
Waterproof Rating	IP54
Certification	FCC, CE, RoHS, WEEE



Model 22083

- Wireless repeater for FlashTrak Telematics System
- Auto frequency hopping capabilities across 50 channels to minimize interference
- Able to use up to 5 repeaters in one wireless network (as needed)
- Internal battery backup power source
- Relay signals from logger to ensure network strength

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

SS0157 15G1

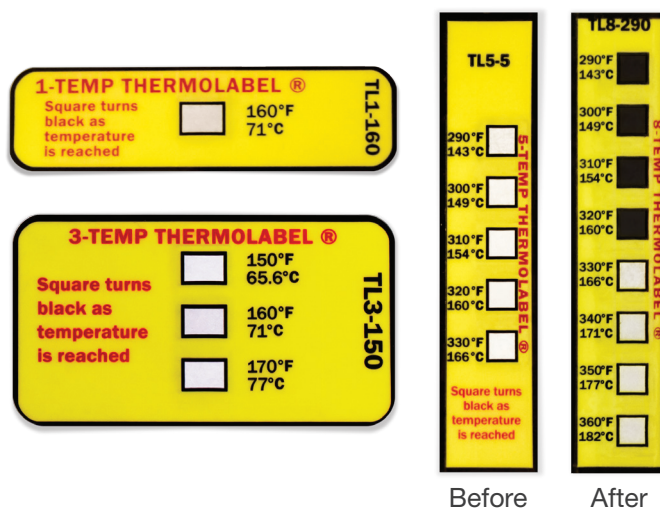


Product Specifications

High Temperature Thermal Labels

Provides a permanent record of internal or external temperature of a product or equipment over time. Used during manufacturing, processing, storage, shipping, in curing and sterilization chambers, retort operations, in ovens, washers, dryers and cargo holds.

- Single-use, color-changing temperature indicators
- 5 to 10 second response time
- $\pm 1\%$ of stated temperature accuracy
- Indefinite life when stored in a cool dry place, below 80°F (27°C)
- Available in 1-Temperature, 3-Temperature, 5-Temperature 8-Temperature Strips



Before After

Model 1-TL	°F / °C
50109	140 / 60
50110	150 / 65
50111	160 / 71
50112	170 / 77
50113	180 / 82
50114	190 / 88
50120	250 / 121

1 Level Temperature Label

Self-adhesive label ½" x 1 ¾", completely sealed with a clear plastic overlay. Indicator turns black at temperature threshold which is indelibly imprinted on each label. Can be used under all industrial conditions: water, steam, humidity, oils, grease, solvents, and chemical contamination. Ideal for dishwashers, animal cage washers, autoclaves and ovens. Different temperature thresholds range from 90°F (32°C) to 500°F (260°C).

Model 3-TL	WINDOW #1 °F / °C	WINDOW #2 °F / °C	WINDOW #3 °F / °C
50301	150 / 65.6	160 / 71.1	170 / 76.7
50302	160 / 71.1	170 / 76.7	180 / 82.2

3 Level Temperature Label

Similar to the 1 Level Temperature label, it is also sealed with a clear plastic overlay for use under all conditions. It measures 1" x ¾" and has two models with a combination of temperature thresholds: 150°-160°-170°F (66°-71°-77°C) and 160°-170°-180°F (71°-77°-82°C).



Product Specifications

High Temperature Thermal Labels

Model 5-TL	WINDOW #1 °F / °C	WINDOW #2 °F / °C	WINDOW #3 °F / °C	WINDOW #4 °F / °C	WINDOW #5 °F / °C
50501	100 / 37.8	105 / 40.6	110 / 43.3	120 / 49	130 / 54.4
50502	140 / 60	150 / 65.6	160 / 71	170 / 77	180 / 82
50503	190 / 88	200 / 93	210 / 99	220 / 104	230 / 110
50504	240 / 116	250 / 127	260 / 127	270 / 132	280 / 138
50505	290 / 143	300 / 149	310 / 154	320 / 160	330 / 166
50506	340 / 171	350 / 177	360 / 182	370 / 188	380 / 193
50507	390 / 199	400 / 204	410 / 210	420 / 216	435 / 224
50508	450 / 232	465 / 241	480 / 249	490 / 254	500 / 260
50510	90 / 32.2	100 / 37.8	110 / 43.3	120 / 49	130 / 54.4

5 Level Temperature Label

Has five temperature indicator windows on a single strip, clear plastic overlay, but not completely sealed and cannot be used under liquid conditions. Each window reacts within a few seconds when its rated temperature is reached, and that section changes from white to black. Ratings fall within an overall range of 90°F to 500°F (32.2°C to 260°C). Available in ten different temperature combinations.

Model 8-TL	WINDOW #1 °F / °C	WINDOW #2 °F / °C	WINDOW #3 °F / °C	WINDOW #4 °F / °C	WINDOW #5 °F / °C	WINDOW #6 °F / °C	WINDOW #7 °F / °C	WINDOW #8 °F / °C
50801	100 / 37.8	105 / 40.6	110 / 43.3	120 / 49	130 / 54.4	140 / 60	150 / 65.5	160 / 71
50802	130 / 54.4	140 / 60	150 / 65.6	160 / 71	170 / 77	180 / 82	190 / 88	200 / 93
50803	170 / 77	180 / 82	190 / 88	200 / 93	210 / 99	220 / 104	230 / 110	240 / 116
50804	210 / 99	220 / 104	230 / 110	240 / 116	250 / 121	260 / 127	270 / 132	280 / 138
50805	250 / 121	260 / 127	270 / 132	280 / 138	290 / 143	300 / 149	310 / 154	320 / 160
50806	290 / 143	300 / 149	310 / 154	320 / 160	330 / 166	340 / 171	350 / 177	360 / 182
50807	330 / 165	340 / 171	350 / 177	360 / 182	370 / 188	380 / 193	390 / 199	400 / 204
50808	370 / 188	380 / 193	390 / 199	400 / 204	410 / 210	420 / 216	435 / 224	450 / 232
50809	410 / 210	420 / 216	435 / 224	450 / 232	465 / 241	480 / 249	490 / 254	500 / 260

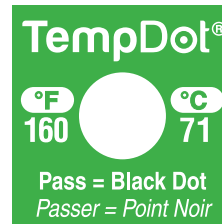
8 Level Temperature Label

Similar specifications to the 5 Level Temperature label, it also cannot be used under liquid conditions. It has eight temperature elements on a single strip, and ratings fall within an overall range of 100°F to 500°F (37.8°C to 260°C). Available in nine different temperature combinations.

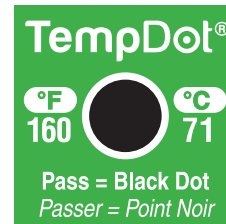
Product Specifications

TempDot® High Temperature Dishwasher Thermal Labels

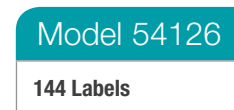
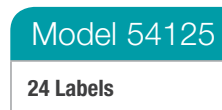
Response Temperature	160°F (71°C)
Temperature Accuracy	±2°F, ±1°C
Size	0.75" x 0.75"; 19 mm x 19 mm
Packaging	Model 54125: 12 labels/ sheet x 2 sheets, total 24 labels per package Model 54126: 12 labels/ sheet x 12 sheets, total 144 labels per package
Characteristics	Color change from white to black Label can be removed from dishware without leaving adhesive residue, and affixed to log book for record keeping. Avoid exposure to UV light and heat sources.
Storage	Store below 80°F (26°C). Do not expose to sunlight or other UV light, or heat source such as air vents, pipes or appliances
Shelf Life	2 years, under recommended storage conditions



Before



After



High Temperature Dishwasher Thermal Labels provide an indication of temperature change in commercial dishwashers and warewashers. This validates that dish, utensil, or kitchenware surface has reached sanitation temperature of 160°F/71°C.

Transparent overlay provides stability of visual indicator dot.

- Thermochromic color change
- Waterproof
- Adhesive back
- Single-use, disposable
- Verifies compliance with FDA Food Code 4-703.11 (B) for sanitization

DeltaTrak manufactures products under an ISO 9000 registered quality management system

SS0106 14E2



Product Specifications

Coldmark® Temperature Indicator



Response Temperatures	51001 32°F / 0°C 51002 26°F / -3°C
Accuracy	±1°C (1.8°F) of the response temperature

Model 51001

32°F / 0°C

Model 51002

26°F / -3°C

- Protects products that are sensitive to extremely cold temperatures
- Adhesive labels can be applied to a product, package, carton or master pack
- Tamper proof method of verifying when freeze damage has occurred during shipping, storage, or handling

DeltaTrak manufactures products under an ISO 9000 registered quality management system

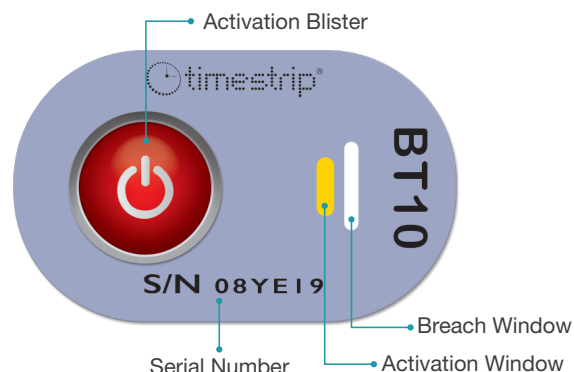
SS0102 14C1



Product Specifications

TempDot[®] Plus Blood Temp 10

Threshold Temperature	10°C/ 50°F
Temperature Accuracy	± 0.5°C /1°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.25 in x 0.75 in (32 mm x 19 mm)
Start Button	Blister ~0.1 in H (~2.5 mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Adhesive	DuploCOLL [®] 2353 - for reverse coating of labels employed for labeling blood bags
Recommended Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	Pre activation: 2.5 years Post Activation: 1 year or until temperature breach is indicated
Moisture Resistance	Splashproof. Not suitable for immersion in water



Model 51064

- Quality assurance for blood temperature during transportation and storage.
- Simple push-button activation
- Indicator requires no special conditioning prior to use
- Cost-effective monitoring
- Maintain quality control in blood transportation and storage
- Real-time data to make quick, safe decisions
- Peace of mind
- Irreversible proof of meeting AABB Standards and the FDA's CFR 600.15(a) for monitoring temperature of whole blood during transportation and storage
- FDA 510(k) clearance

Application is as Easy as 1,2,3

1 Push the Button

Firmly squeeze the activation button until you feel a pop, then release.

2 Verify Activation

Arming window will change from yellow to dark green immediately. Dark green means activated. If not, go back to Step 1.

3 Apply to Blood Bag

Remove adhesive liner and adhere activated indicator to the lower third of blood bag.

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

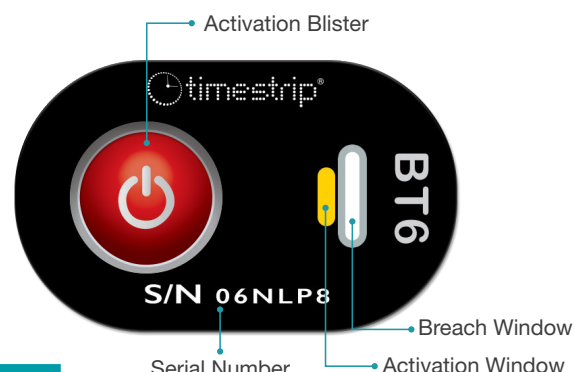
SS0159 16C1



Product Specifications

TempDot[®] Plus Blood Temp 6

Threshold Temperature	6°C/ 43°F
Temperature Accuracy	± 0.5°C /1°F
Time Accuracy	± 15% in time under isothermal conditions
Chemical Indicator	Blue liquid chemical encapsulated in a blister, Food Chemicals Codex, FDA approved (Title 21), GRAS (Generally Recognized As Safe)
Label Material	Polymeric assembly multilayer, aluminium-plastic laminate, non-toxic, latex & PVC free
Label Size	1.25 in x 0.75 in (32 mm x 19 mm)
Start Button	Blister ~0.1 in H (~2.5 mm H)
Activation	Pressure with finger, in environment above threshold temperature
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.
Adhesive	DuploCOLL [®] 2353 - for reverse coating of labels employed for labeling blood bags
Recommended Storage (un-activated)	Ambient room temperature, cool, dark place, away from direct heat source and sunlight. Recommended 72°F(22°C) at 20-80% RH
Shelf Life	Pre activation: 2.5 years Post Activation: 1 year or until temperature breach is indicated
Moisture Resistance	Splashproof. Not suitable for immersion in water



Model 51066

- Quality assurance for blood temperature during transportation and storage.
- Simple push-button activation
- Indicator requires no special conditioning prior to use
- Cost-effective monitoring
- Maintain quality control in blood transportation and storage
- Real-time data to make quick, safe decisions
- Peace of mind
- Irreversible proof of meeting AABB Standards and the FDA's CFR 600.15(a) for monitoring temperature of whole blood during transportation and storage

Application is as Easy as 1,2,3

1 Push the Button

Firmly squeeze the activation button until you feel a pop, then release.

2 Verify Activation

Arming window will change from yellow to dark green immediately. Dark green means activated. If not, go back to Step 1.

3 Apply to Blood Bag

Remove adhesive liner and adhere activated indicator to the lower third of blood bag.

DeltaTrak manufactures products under an ISO 9001:2008 registered quality management system

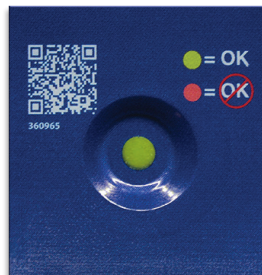
SS0210 16C2



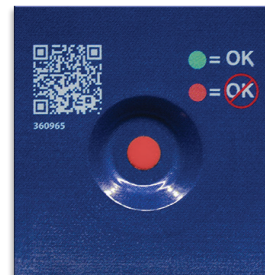
Product Specifications

TempDot Freeze Indicator

Threshold Temperature	32°F/0°C
Temperature Accuracy	± 2°F/1°C
Size	1.14in x 1.18in (29mm x 30mm)
Characteristics	Irreversible color change from green to red
Storage (Prior to Use)	Between 68°F to 77°F (20°C to 25°C), optimum shelf life when stored at 39°F/4°C DO NOT FREEZE
Shelf Life	1 year under recommended storage conditions
Indicator	Temperature-sensitive polymeric liquid crystal
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.



Before



After

Model 54001

32°F/0°C

- Responds to temperature excursions below 32°F (0°C)
- Fast-acting, irreversible color change
- Visual indicator for making immediate pass/fail decisions
- Adheres to product or packaging
- Environmentally safe, no toxic chemicals

How to Use:

The TempDot Freeze Indicator provides an irreversible visual alert once the temperature descends below the defined threshold value of the label.

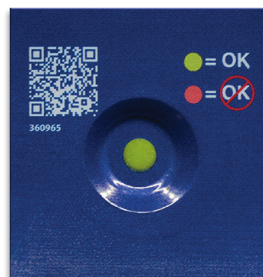
- 1) The label is always active and prior to use must be shipped, stored and handled in an environment above threshold temperature of 32°F/0°C. Keep the label between 68°F to 77°F (20°C to 25°C). For optimal shelf life store at 39°F (4°C). DO NOT FREEZE.
- 2) Remove the adhesive liner from the back of the label and adhere it to the product or package. Note: the product to be monitored must be above the 32°F/ 0°C threshold.
- 3) Once the label is exposed to temperature below the 32°F/ 0°C threshold, the green dot in the middle will irreversibly change to red.



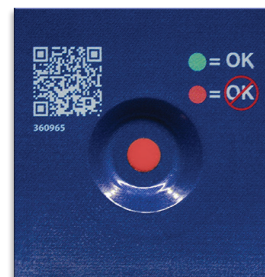
Product Specifications

TempDot Descending Temperature Indicator Label

Threshold Temperature	36°F/2°C
Temperature Accuracy	± 4°F/2°C
Size	1.14in x 1.18in (29mm x 30mm)
Characteristics	Irreversible color change from green to red
Storage (Prior to Use)	Between 64°F to 77°F (18°C to 25°C), DO NOT FREEZE
Shelf Life	1 year under recommended storage conditions
Indicator	Temperature-sensitive polymeric liquid crystal
Application	Pressure sensitive adhesive backing. Apply to clean, dry surface.



Before



After

Model 54002

36°F/2°C

- Responds to temperature excursions below 36°F (2°C)
- Fast-acting, irreversible color change
- Visual indicator for making immediate pass/fail decisions
- Adheres to product or packaging
- Environmentally safe, no toxic chemicals

How to Use:

The TempDot Descending Indicator provides an irreversible visual alert once the temperature goes below the defined threshold value of the label.

- 1) The label is always active and prior to use must be shipped, stored and handled in an environment above threshold temperature of 36°F/2°C. Keep the label between 64°F to 77°F (18°C to 25°C). DO NOT FREEZE.
- 2) Remove the adhesive liner from the back of the label and adhere it to the product or package. Note: the product to be monitored must be above the 36°F/ 2°C threshold.
- 3) Once the label is exposed to temperature below the 36°F/ 2°C threshold, the green dot in the middle will irreversibly change to red.



Product Specifications

AirRepair Ethylene Absorbers



Models	19005	19006	19016	19015	19011	19008	19009
Product	Mini-Packets		Mini-Tube	Tube	Mini-Blanket	Blankets	
Dimension/ Weight	5 grams	8 grams	5 "	20 "	10"x10"	20"x20"	20"x25"
Quantity	2000 Packets/box	1500 Packets/box	6 Tubes/box	1	3 Blankets/box	1	1

- Ethylene Management for Floral and Produce Handling
- Potassium Permanganate Beads Filters Ethylene from Air
- Extends shelf life and maintains quality
- Reduces Shrink

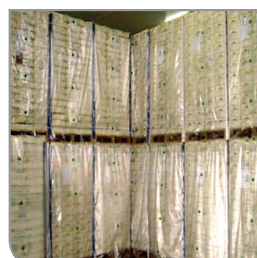
Product Specifications

PrimePro^{EAP} Ethylene Adsorption Packaging (EAP)

Product	Pallet Cover	Carton Liner *	Sheet *
Model No.:	19030	19031	19032
Dimensions	50in x 96in x 42in (127cm x 244cm x 107cm)	24in x 16in x 8in (60cm x 40cm x 20cm)	15.5in x 38in (39cm x 97cm)
Gauge	1 mil (25 micron)	1 mil (25 micron)	1 mil (25 micron)
Quantity	50 covers per roll	400 Liners per box	1400 Sheets per box

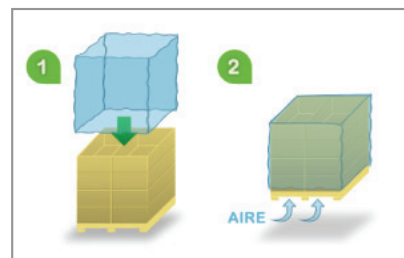
Notes: PrimePro EAP meets the standards for food contact use as stated in US FDA CFR 177.1520 (c) 2.1. In compliance with European Union and member state legislation for food contact materials

- Extends shelf life and maintains quality
- Linear low density polyethylene (LLDPE) plastic film
- Proprietary additive for ethylene adsorption
- Anti-fog additive reduces water droplets
- No special equipment required for packaging process
- No gas needed to replace air under pallet cover



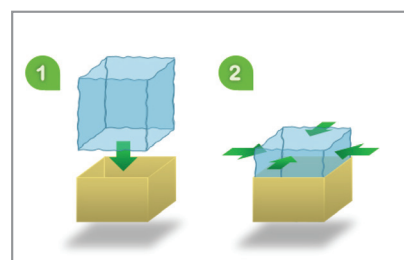
Model 19030

Pallet Covers



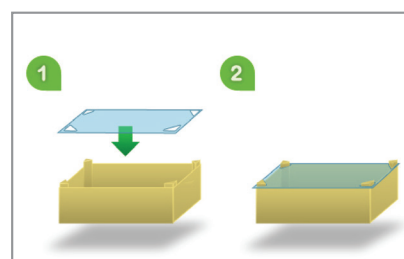
Model 19031

Carton Liners



Model 19032

Sheets



SS0113 15D1



Product Specifications

Analog Salt Meter — Salinity Refractometer

Scale	Specific Gravity (SG) d20/20; Parts per Thousand (PPT) 0/00
Range	0-100 PPT; 1.000-1.070 SG
Resolution	1.0 PPT; 0.001 SG
Accuracy	±1.0 PPT; ±0.001 SG
Automatic Temperature Compensation Range	50°F to 86°F (10°C to 30°C)
Dimension	30 mm width x 205 mm length
Weight	207 grams
Focus	Manual, adjustable



Model 24240

- Hand-held analog meter
- Light-weight, portable, includes protective carrying case
- Measures concentration of salt and dissolved solids in aqueous solution
- Provides reading in parts per thousand (PPT) and specific gravity (SG)
- Automatic Temperature Compensation (ATC)
- Ideal for on-site measurements in processing and storage areas, or in the field
- Determine salinity during preparation of pickles, seafood products, frozen vegetables and fruits

DeltaTrak manufactures products under an ISO 9000
registered quality management system

SS0080 13L1



Product Specifications

Analog Brix Meter — Sugar Refractometer

Scale	Brix
Range	0% to 32%
Resolution	0.2%
Accuracy	±0.2%
Automatic Temperature Compensation (ATC)	50°F to 86°F (10°C to 30°C)
Dimension	30mm width x 163 mm length
Weight	147.4 grams
Focus	Manual, adjustable



Model 12220

- Hand-held, analog meter
- Light-weight, portable, includes protective carrying case
- Measures concentration of sugar and dissolved solids in aqueous solution
- Automatic Temperature Compensation (ATC)
- Ideal for on-site measurement of juices and other sugar-based liquids
- Determine fruit quality during harvest, shipping, receiving, processing, storage

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SS0017 13K1



Product Specifications

Digital Brix Meter — Sugar Refractometer

Scales	Brix	Refractive Index
Range	0 - 45%	1.3330 - 1.4098
Divisions	0.1	0.0001
Accuracy	±0.1%	±0.0003
Temperature Measurement Range	32°F to 104°F (0°C to 40°C)	
Temperature Accuracy	±1°F (±0.5°C)	
Measurement Temperature Resolution	0.1°C	
Measurement Response Time	≤ 3 seconds	
Minimum Sample Volume	0.3 ml	
Dimensions	135 x 65 x 40 mm	
Weight	200g	
Power Supply	2 x AAA Batteries	
Battery Life	≥ 2000 Readings	
Automatic Temperature Compensation	41°F to 104°F (5°C to 40°C)	
Automatic Shut Off	Yes	



Model 12223

- Hand-held, digital meter
- Light-weight, portable, includes protective carrying case
- Measures concentration of sugar and dissolved solids in aqueous solution
- Automatic Temperature Compensation (ATC)
- Ideal for on-site measurement of juices and other sugar-based liquids
- Determine fruit quality during harvest, shipping, receiving, processing, storage

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SS0018 13K1



Product Specifications

Penetrometer — Fruit Firmness Meter



Model 12226

- Hand-held, analog meter
- Light-weight, portable, includes protective carrying case
- On-site measurement of fruit firmness indicates maturity or ripeness

Model 12227

Model 12228

- Easy to read scale - trailing pointer indicates highest resistance point
- Plunger tip marked for accurate penetration depth
- Determine fruit quality during harvest, shipping, receiving, processing, storage

Model	12226	12227	12228	
Measurement Range	0.2 - 15 Kg/cm ² (×10 ⁵ Pa)	0.2 - 4 Kg/cm ² (×10 ⁵ Pa)	1-24 Kg/cm ² (×10 ⁵ Pa)	0.5 - 12 Kg/cm ² (×10 ⁵ Pa)
Resolution	±0.1	±0.2	±0.1	±0.2
Precision	±0.5	±0.5	±0.3-±0.5	
Pressure Diameter	3.5mm	3.5mm	8mm	11mm
Accuracy	±0.1%	±0.022%	±0.1%	
Show Mode	Analog	Analog	Analog	
Out-size	L140mm x W60m x H30mm			
Insertion Depth:	10mm	10mm	10mm	
Weight	0.3 kg	0.3kg	0.3kg	
Application	bananas, berries, cherries, grapes	apricots, peaches, plums, citrus, melons, persimmons, tomatoes	avocados, pears, nectarines, kiwi	apples

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SS0112 13K1



Product Specifications

Pocket ISFET pH Meter

Sensor	Ion Sensitive Field Effect Transistor (ISFET) Replaceable reference electrode
Calibration	pH 7.0 buffer, automatic one point calibration
Display	LCD with pH and Temperature
Automatic Buffer Recognition	pH 7.0 pH 6.86
pH	Suggested Range 5.0 to 9.0 pH Range: 2.0 to 12.0 pH Resolution: 0.1 pH Repeatability: ± 0.1 pH Input Accuracy: ≤ 0.1 pH
Temperature	Operating Temperature Range: 41°F - 104°F (5°C - 40°C) Resolution: 0.1°C or 0.1°F Accuracy: ± 1.0 °F / 0.5°C
Battery Operation	Two 3v (Lithium dry cell CR2032) included
Battery Life	Approx. 200 hours of continuous use, warning with 10 hour advance low battery and automatic power off
Dimensions	6 1/8"L x 1 1/4"W x 3/4"H (155mmL x 33mmW x 20mmH)
Weight	0.17 lbs (77g) meter only
IP Rating	IP67
Software Requirements	FlashPDF Program Manager Software or FlashLink Tag-It Software
Certification	CE Mark, Calibration Traceable N.I.S.T., RoHS Compliant, BSS 7061 Compliant
Min. System Requirements	Windows PC w/current operating system
Software and Adapter	CT-USB Adapter and/or FlashPDF Software Kit



Model 24004

- Low cost, non-glass ISFET pH system
- Instant response time
- Stores dry, requires no fill solution
- Replaceable reference electrode (PN 24005)
- Auto Shut off
- Able to read a single drop of buffer or sample
- Quick pH readings of foods, soils, wastewater, pools, and other samples

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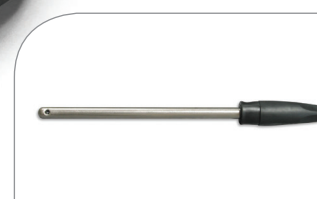
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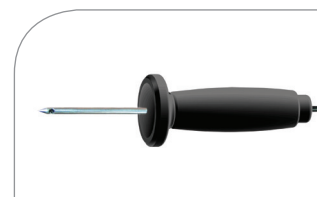
Product Specifications

Waterproof pH Meter

Description	GLP (Good Laboratory Practice) compliant, waterproof pH meter. Measures pH, mV, and temperature			
Probe Types	Non-glass pH probes w/BNC connector. Will accept glass probes w/BNC connector			
Range	pH: -2.00 to 19.00	±1999 mV	Temp: 0 to +100°C (Display °C or °F)	ISE: Autoranging 0.0 ppm to 1999ppt
Resolution	pH: 0.01	0.1/1 mV	Temp: 0.1 °C or 0.1°F	0.1ppm, 0.1ppt
Accuracy	pH: ±0.01	±0.1 mV	Temp: ±0.5 °C	probe dependent
GLP	Yes			
Display	Large LCD with LED backlight			
Temperature Compensation	Manual or Automatic 0 to +100 °C			
Calibration	up to 5 points			
Buffer Recognition	Automatic at 1.68, 4.01, 6.86, 7.00, 9.18, 10.01, 12.45			
Power	4-AA batteries (included)			
Battery Life	Up to 200 hours continuous, 10 hour advance low battery warning			
Dimensions	3.5 in W x 8 in H x 2 in D (90mm x 204mm x 50mm)			
Weight	3.0 lbs (1.3 Kg)			



Standard 8.3mm
(0.33 in.) diameter probe



Heavy duty, 4.8mm
(0.19 in.) piercing meat probe

Models

pH Meter	8.3mm Probe	4.8mm Probe
24309	24302	24303

- pH meter for non-glass and glass probes with BNC connector
- IP67 waterproof, chemical resistant, dust resistant, floating enclosure
- 0.01 pH resolution
- One, two or three point pH calibration
- Automatic or manual temperature compensation



SS0135 15J1



Product Specifications

FlashCheck TMS - Temperature Management System Bluetooth Probe Thermometer

Measurement Range	-58 to 572°F (-50 to 300°C)
Resolution	0.1°F / °C
Accuracy	±0.7°F (±0.4°C) ±0.1%
Response Time	Less than 5 seconds (32°F to 77°F / 0°C to 25°C)
Battery	AAA NiMH Rechargeable
LED	Red - On/off status Blue - Bluetooth data transfer
Waterproof Rating	IP63 with silicon boot
Probe Length and Tip Diameter	5.1in L (0.125in Dia.) 130mm L (3.3mm Dia.) Reduced tip to 0.06in Dia. (1.5mm Dia.)
Base Dimensions	5.14 in H x 1.57 in W (130.6 mm H x 40 mm W)
Certificate	Manufacturers certificate of compliance traceable to NIST, CE mark, RoHS compliant
Weight	0.20 lb. (90g)
Data Transfer Distance	65 feet (20m)



Model 23224

- Reduced tip probe with fast response time
- Small diameter probe (0.06in/1.5mm) ideal for measuring temperature of thin mass foods such as meat patties, chicken and fish fillets, per FDA Food Code 4-302.12 (B)
- Sealed unibody construction
- Bluetooth connection to FlashCheck TMS
- Rechargeable battery



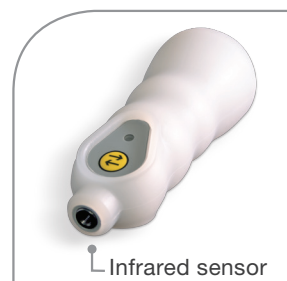
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Product Specifications

FlashCheck TMS - Temperature Management System Bluetooth Infrared Thermometer

Measurement Range	-58 to 482°F (-50 to 250°C)
Resolution	0.1°F / °C
Accuracy	±3.6°F (±2.0°C) 2%
Response Time	Less than 5 seconds (32°F to 77°F/0°C to 25°C)
Battery	AAA NiMH Rechargeable
LED	Red - On/off status Blue - Bluetooth data transfer
Field of view	5:1 @ 1 meter
Emissivity	0.95
Waterproof Rating	IP63 with silicon boot
Base Dimensions	5.14 in H x 1.57 in W (130.6 mm H x 40 mm W)
Certificate	Manufacturers certificate of compliance traceable to NIST, CE mark, RoHS compliant
Weight	0.20 lb. (90g)
Data Transfer Distance	65 feet (20m)



Model 23225

- Instant non-contact surface temperature measurement
- Quickly scan numerous food temperatures of food or equipment
- Sealed unibody construction
- Bluetooth connection to FlashCheck TMS
- Rechargeable battery



SS0197 16B1



Product Specifications

Food Safety Station

Includes

Model Number	Description
11063	FlashCheck Jumbo Display Waterproof Thermometer
12214	Waterproof Dishwasher Thermometer Kit (11050 FlashCheck Waterproof Min/Max Thermometer & Heat Shield)
54125	TempDot High Temperature Dishwasher Thermal Labels
50009	Alcohol Wipes
50012	pH Plastic Indicator Strips
50014	Chlorine Test Papers
50013	Quat Ammonium Test Papers
Reference Guide	Food Safety Made Easy
Log Forms	For record keeping
Dimensions	18in long x 4.25in tall x 4.23in deep



Model 50003

- Centralized collection of food safety tools with SOP Manual - Food Safety Policy and procedures
- Allows easy access to thermometer for HACCP Guidelines in an organized case
- Self adhesive tape provided for convenient wall mounting
- 6 slotted holders on left keeps probes within easy reach
- 3 larger compartments keep larger items organized

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SS0209_16B3



Product Specifications

pH Plastic Indicator Strips

Reference Chart	0.0 to 6.0 pH range, subdivision 0.5 pH unit
Package	300 test strips, 1 color chart
Size of 1 strip	0.25" W x 2.5" L (7mm W x 63mm L)



Model 50012

The 0.0 - 6.0 pH Dip-Stik strips are simple to use and require no technical training. To measure the pH of a solution, simply dip the test strip into the solution and match the resulting color change with the pH color chart.

- Immediate response
- Direct reading pH stick with clear, bright color matches over the desired pH range
- Easy to match color with color chart included
- Economical pack contains 300 strips

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SS0095 13L1



Product Specifications

Quat Ammonium Test Papers

Reference Chart	0, 100, 200, 300, 400 (ppm)
Package	3 rolls, 1 plastic dispenser, 1 color chart
Size of Roll	5/32 in W x 15 ft L (4 mm W x 4.6m L)



Model 50013

Need a quick and easy method to ensure you are effectively sanitizing food surfaces? Quat Test Papers are the answer. The Hydrion QT-10 test paper provides a simple and reliable method to verify the strength of Quaternary Ammonium sanitizers and ensure compliance with the food safety laws enforced by federal, state, and local health departments.

The Test Papers give accurate readings when properly used:

- Get room temperature test solution (65°F -75°F)
- Immerse test strip in still solution for 10 seconds
- Compare color against the color chart.
- Simple test procedure requires no technical training
- Easy to match color with color chart included
- User-friendly dispenser package
- Economical pack provides approximately 100 tests

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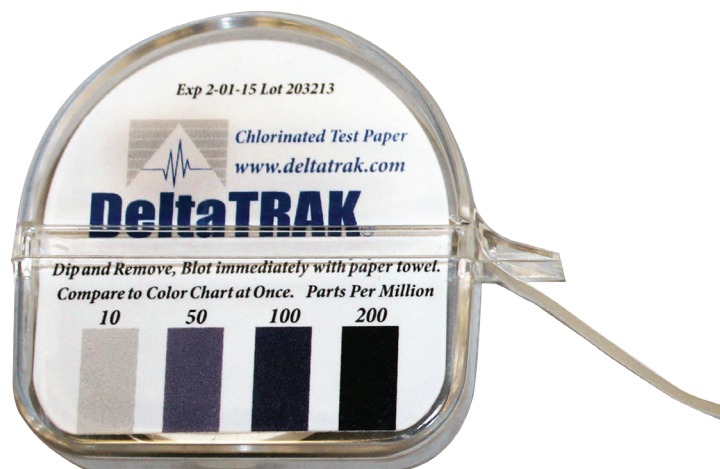
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Product Specifications

Chlorine Test Papers

Reference Chart	10-50-100-200ppm
Package	6 rolls, 1 plastic dispenser, 1 color chart
Size of Roll	5/32 in W x 15 ft L (4mm W x 4.6m L)



Model 50014

Users of chlorine based sanitizer solutions are required to have test kits on hand to ensure their sanitizer solutions meet federal and state health department requirements. The Hydrion Chlorine Test Papers measure the concentration of chlorine based sanitizer solutions. They provide the user with a simple, reliable, and economical means of meeting federal and state health requirements. Simply dip the test strip in the chlorine sanitizer solution and compare color against the color chart. These test papers are approved by health department to be used for monitoring concentrations of chlorine sanitizing solutions.

- Simple test procedure requires no technical training
- Easy to match color with color chart included
- Reliable color matching at 10-50-100-200ppm
- User-friendly dispenser package
- Economical pack provides over 200 tests

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SS0097 13L1



Product Specifications

Kitchen Timer — Count-up/Countdown

Maximum count down/up range	19 hours, 59 minutes
Display resolution	1 second
Display size	1.85 in. W x .78 in. H (47mm W x 20mm H)
Digital size	.33 in W x .70 in H (8.3mm W x 18mm H)
Battery	1.5 volt, Size AAA
Product size	2.48 in W x 2.48 in H x .59 in D (63mm W x 63mm H x 15mm D) excluding clip



Model 50007

- Large LCD display
- 19 hour, 59 minute count up or down
- Loud buzzer sound
- Folding stand
- Magnet on back

Applications:

The kitchen timer is useful for timing the cooking or cool down of foods in restaurants and all food service areas. The large, easy-to-read display shows at a glance the time and the loud buzzer can be heard in busy areas.

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SS0093 13L1



Product Specifications

Alcohol Wipes

Certificates	CE certificate, ISO: 2003
Ingredients	70% Isopropyl alcohol and 30% distilled water
Boiling point	82.5°C (180.5°F)
Relative Density	0.7851
Dimensions	2.4" x 1.2" (61 mm x 31 mm) each wipe
Package	200 PCS/box, 4000 PCs/case



Model 50009

Alcohol Prep Pads are primarily used in the food service and processing facilities for sanitization to meet HACCP and food safety requirements. Each soft absorbent, non-woven pad is saturated with 70% isopropyl alcohol. Individually wrapped alcohol wipes are also ideal for cleaning and sanitizing thermometer probes. It is imperative that probes and other tools are sanitized before and after each use to prevent cross-contamination. Each pre-moistened pad measures 61 mm x 31 mm.

- Premium, nonwoven pad material saturated with 70% isopropyl alcohol
- Cleans and sanitizes
- Sealed in air-tight, poly-lined foil pouches
- Cost effective

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SS0094 13L1

