Cooper ATKINS®

Accuracy to the Highest Degree

WIRELESS

BLUETOOTH

HANDHELD

DIGITALS

blue 2

HACCP Manager

37100 Solo

TravAlert

TempTrak

INDUSTRIAL CATALOG
HVAC/R · Facilities · OEM

Cooper-Atkins Corporation

A customer-centric technology leader in monitoring solutions for the global Foodservice, Healthcare and Industrial markets.

Cooper-Atkins has built a reputation as a manufacturer and provider of quality temperature, time and humidity instruments. The inventor of the first bi-metal oven thermometer, David G. Cooper, founded The Cooper Thermometer Company in 1885. For over 128 years, Cooper-Atkins has been a leading manufacturer of indoor environment and innovative food safety solutions. We have a global reach and are a trusted resource for high-quality products and expert advice. The company continues to meet the needs of its customers by remaining focused on the education and promotion of important industry issues and by providing the highest level of service and customer satisfaction!

"We will continue to provide our dedicated customers with affordable solutions for every temperature measurement challenge - from bi-metal pocket tests to hand-held thermocouple units to our high-tech wireless temperature monitoring systems. When industrial professionals are faced with temperature challenges they will continue to look to Cooper-Atkins to provide solutions tailored to the needs of their business." - **Carol P. Wallace**

Carol P. Wallace has been the President and CEO of Cooper-Atkins Corporation since 1994 and is recognized by the WBENC for leading a successful and thriving woman-owned corporation. The WBENC is the largest third-party certifier of businesses owned, controlled, and operated by women in the U.S.

The 92010-K Kit is made up of the 20100-K Blue2 Instrument and the 50337-K DuraNeedle Direct Connect Probe. The Blue2 Instrument transmits temperatures wirelessly to your mobile device via Bluetooth Low Energy. The Instrument can utilize any interchangeable Type-K temperature probe making it versatile for insertion, air or surface temperature measurement. The data obtained can be integrated into existing third party applications.

92010-K Kit Includes:
- 20100-K Blue2 Instrument
- 50337-K DuraNeedle Direct Connect Probe

Specifications
#20100-K Blue2 Instrument
Temperature Range: -40º to 999ºF (-40º to 537ºC)
Ambient Operating Range: 32º to 122ºF (0º to 50ºC)
Resolution: 0.1º
Accuracy: ±0.5ºF with ambient temperatures between 68º to 86ºF, add ±0.1ºF per degree outside of this ambient range
RF Range: 100 feet, line-of-sight
Bluetooth Low Energy
Power: Replaceable 3V Lithium cell battery (CR123A) (Included)
Battery Life: 750 hours
ABS plastic housing with antimicrobial additive
IPX7 waterproof rated
Traceable to NIST standards
5-year Warranty

Note: EMC Compliance: The Blue2 instrument may record temperature measurements beyond the stated accuracy when exposed to radio frequency disturbances between 250Mhz and 1000Mhz with a field strength in excess of 3.0V/m. This deviation is temporary and the Blue2 will recover when the disturbance is removed.

#50337-K DuraNeedle Probe
Temperature Range: -100º to 500ºF (-73º to 260ºC)
Accuracy: ±1ºF
Response Time: 1 second in liquid
Probe Length: 4" (102 mm)
1-year Warranty

Watch the Video!

The NotifEye™ cloud-based temperature monitoring and notification system increases your operating efficiencies and monitors indoor air quality. It is a low-cost wireless solution that is self-installable and ready to use out-of-the-box. The system has a wireless range of 250-300 ft and offers unlimited sensor data storage. Data is accessible from anywhere via the internet.

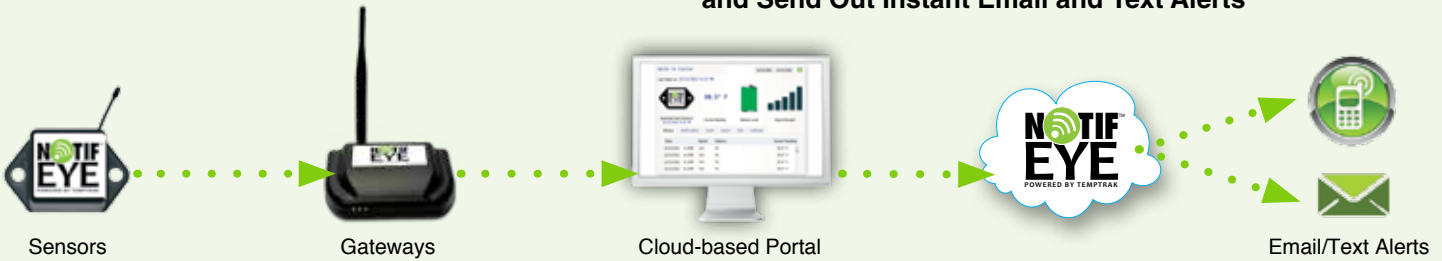## View the NotifEye™ Online System and Live Data!
Log Into: www.notifeyewireless.com
User Name: demo / Password: demo2013

How It Works

Wireless Sensors Send Data via Gateways to the NotifEye™ System and Send Out Instant Email and Text Alerts

Sensors　　　　　Gateways　　　　　Cloud-based Portal　　　　　Email/Text Alerts

NotifEye History Screenshot

The NotifEye system allows users to choose a specific date range and have the sensor data within that range generated into a graph. The graphs are printable via the on-screen icon. *(Shown on left)*

NotifEye sensor data can also be exported for selected date ranges. A .csv file will be downloaded to the users default download directory and can be opened in any spreadsheet editing program like Microsoft Excel.

SENSOR FEATURES:
- Basic Sensor Configurations (Name Sensor, Set Heartbeat, Select Unit of Measurement)
- Advanced Sensor Configurations (Recovery Attempts, Inactivity Alerts, Sub Heartbeat Assessments)
- Sensor Configuration by Group
- Sensor Grouping by Gateway, Type or Status
- Unlimited Number of Networks, Sensors, Gateways and Use Supported
- Sensor Mapping Tool (Visual Placement)
- Data Reports and Sensor History Storage
- Visual Charts and Exports

ALERT FEATURES:
- On-screen Alerts and Notifications (Single User or Multiple Recipients)
- Notifications via Email and SMS Text
- Permission-based Access Control and Reporting
- List of Recent Alerts for Individual Sensors

15100 Temperature Sensor - 3 ft. lead (0.91 m)
15100-10 Temperature Sensor - 10 ft. lead (3.05 m)
15100-30 Temperature Sensor - 30 ft. lead (9.14 m)
Temperature Range: -40° to 257°F (-40° to 125°C)
Accuracy: ±1.8°F (±1°C)

15120 Humidity Sensor
Relative Humidity Range: 0-100% RH
Accuracy: ±2% under normal conditions (50-90% RH)

15130 Contact Sensor
Monitor open/close contact
Magnet operation gap up to 0.75"
SPST, gold under-plating contact with Deactivated Rhodium outer-plating

General Sensor Specifications
Ambient Operating Range: 20° to 140°F (-7° to 60°C)
Communication: RF 900 MHz, Antenna: 4" high-gain whip antenna
Sensor Range: 250-300 ft non-line-of-sight (actual range may vary depending on environment)
Power: Replaceable 3.0 V Lithium Ion coin cell battery
Battery Life: 2-3 years at 2-hour heartbeat (battery life determined by sensor reporting frequency and other variables)
1-year warranty

15502 Repeater
Extends sensor range by up to 50%
Supports up to 100 sensors
Power: AC plug
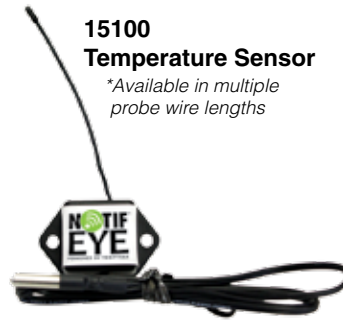
15100 Temperature Sensor
Available in multiple probe wire lengths

15120 Humidity Sensor

15130 Contact Sensor

15502 Repeater

NEW

NotifEye Kit Options:

Ethernet Gateway Kit 15901
Includes:
(4) Temperature Sensors (15100)
(4) 2032 Coin Cell Batteries
(4) Loop & Lock Tape Strips
(8) Mounting Screws
(1) Ethernet Gateway (15501)
(1) AC Power Adapter
(1) Cat 5 Ethernet Cable
2-Years Web Hosting*

Ethernet Gateway Kit 15902
Includes:
(2) Temperature Sensors (15100)
(2) 2032 Coin Cell Batteries
(2) Loop & Lock Tape Strips
(4) Mounting Screws
(1) Ethernet Gateway (15501)
(1) AC Power Adapter
(1) Cat 5 Ethernet Cable
2-Years Web Hosting*

USB Gateway Kit 15900
Includes:
(4) Temperature Sensors (15100)
(4) 2032 Coin Cell Batteries
(4) Loop & Lock Tape Strips
(8) Mounting Screws
(1) USB Gateway (15500)
2-Years Web Hosting*

Renewal fee applies each additional year thereafter

15501 Ethernet Gateway Minimum System Requirements	15500 USB Gateway Minimum System Requirements
• Internet Access via Ethernet Port • PC/MAC Compatible	• An Available USB Port • Windows 8, 7 and Vista • 10 MB Free Disk Space • ASP.NET 3.5 • Computer Must be Left ON for Data Transfer to Occur ***Not Windows XP or MAC Compatible***

Watch the Video!

TempTrak™ Wireless Monitoring Solution

Maintenance/Facilities	*Manufacturing*	*Casinos/Hotels/Resorts*	*Food Processing*	*FactoryRefinery*

The Wireless Monitoring Solution for Industry Professionals
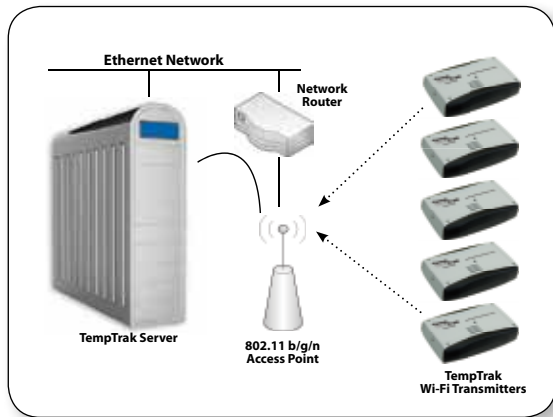### All Equipment.   All Locations.   One Platform.

Eliminate paper-driven logs for manual temperature management by converting to our TempTrak™system. It collects and shares temperature data across multiple locations in the same town or across country. This system allows the monitoring of an unlimited number of points in an unlimited number of locations - all from a single software platform.
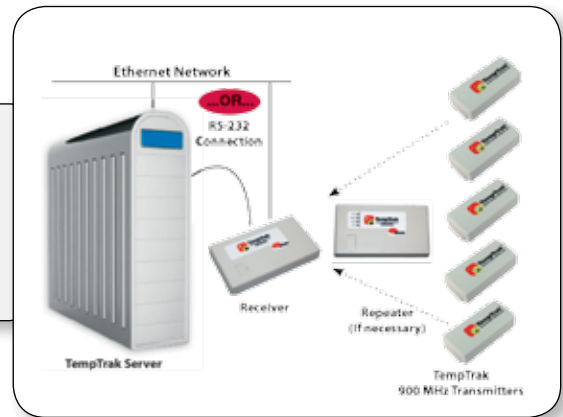
HOW IT WORKS

The transmitters wirelessly send data to the TempTrak software which collects and records data 24/7. In the event the server is unavailable, data is temporarily stored/secured either in a buffer at the receiver (900 MHZ) or onboard the transmitter itself (Wi-Fi). TempTrak hardware can co-exist with other wireless communications operating in the same, or nearby frequencies (900 MHz), or can utilize the facility's existing Wi-Fi network.

- **Battery-powered transmitters - no hard-wiring required**
- **Easily mounted in any location**
- **Monitors against user-defined parameters**
- **Provides alerts via pager, computer pop-up and email**
- **Date and time-stamped - cannot be altered**
- **Temperature data can be displayed in either °F or °C**
- **Add notes to transmitter readings**

TEMPTRAK ACCESS WHEREVER YOU GO!

Ethernet Network

Network Router

TempTrak Server

802.11 b/g/n Access Point

TempTrak Wi-Fi Transmitters

Both Wi-Fi and 900 MHz wireless transmitters can communicate within the same installation.

Ethernet Network

RS-232 Connection

TempTrak Server

Receiver

Repeater (If necessary)

TempTrak 900 MHz Transmitters

BACNET COMPATIBILITY

TempTrak information can be transferred to automation and control systems via an optional BACnet Gateway interface software module. The BACnet Gateway interface allows any Automation System, employing BACnet IP, to access TempTrak's sensory information. With the BACnet Gateway, automation system users can monitor real-time status of equipment that contains critical assets with familiar applications and tools, effectively decreasing losses while increasing maintenance quality. Utilizing TempTrak's wireless sensors and the BACnet Gateway, adding monitor points is quick and cost effective for an automation system owner. **The BACnet Gateway option is available for TempTrak versions 4.5 and higher.**
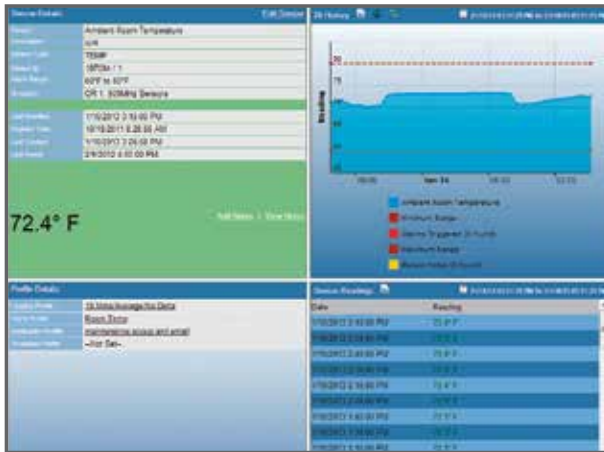
Microsoft Partner
Silver Independent Software Vendor (ISV)

Watch the Video!

REPORTING

TempTrak software can create reports for any building or location from information collected via the system. Customized reports provide historical data, document corrective actions and identify issues before breakdown and spoilage occur.

ALERT NOTIFICATIONS

Alerts may be configured by time of day and day of week. All corrective actions are tracked by time, user and action. An operator can acknowledge or clear an alarm and must document the corrective action taken to resolve the issue. Both the time stamp and identity of the person acknowledging or clearing the alarm is recorded and stored and the event information is stored in the database. When a monitoring point that has exceeded a preset range, it sends an alert notification via a variety of methods including:

- **computer screen pop-ups**
- **emails**
- **pagers (digital and SNPP)**
- **cellular devices (via email)**
- **text messages (via email and SMS)**
- **interactive voice response**
- **contact switches (turn lights or sirens on/off and can connect to security systems to transfer alerts)**
- **scrolling message boards**
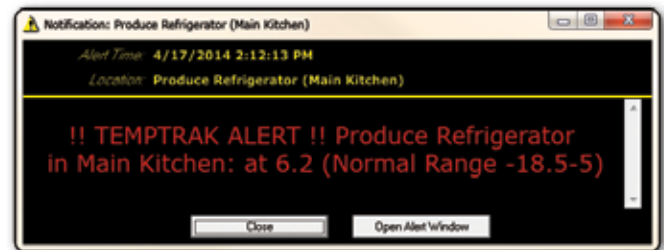
ALERT TYPES

⚠ **Out of Range**
Monitoring point has exceeded a preset range for a preset time period.

🔋 **Low Battery**
Triggered when a battery is becoming low (approximately 2 weeks before battery failure).

📶 **Missed Communication**
Monitoring point has exceeded a preset range for a preset time period.

EZLink™
View, Acknowledge and Clear TempTrak Alarms 24/7!

Wherever you go, **EZLink**™ allows you to monitor your wireless system 24/7. View temperature sensor readings from your mobile device anywhere, anytime!

Features:
- View groups
- View sensors
- View 24-hour sensor reading history

HACCP Manager™ System

The HACCP Manager™ Kit records, stores, and analyzes temperature data and checklist data , eliminating the need for manual data collection. The HACCP Manager's intuitive programming requires minimal training and increases productivity. Both the firmware and software are automatically updated via the web to ensure your system is always current. Incorporating our new HACCP Manager™ system into your preventative maintenance program will not only save you time and money, but will increase consumer confidence and ultimately improve the overall customer experience.

93710
HACCP Manager™ Solo Kit

- 37100 Handheld
- 50209-K MicroNeedle Proble
- 9382 Battery Charger
- 9383 USB Cable
- 9384 Software CD-ROM
  (Not pictured)

HANDHELD DISPLAYS

Checklist Record Screen

Category Screen

ACTUAL SIZE

Corrective Action Screen

The Handheld's large display measures 2" x 1 1/2", making the data easy to read, navigate and select.

37100 Specifications
Temperature Range: -99.9º to 999.9ºF (-73.2º to 537.7ºC)
Accuracy: ±1°F (±0.5°C)
Resolution: 0.1°
Stores up to 3,000 temperatures and 300 menu items
Stores 1500 checklist records (150 questions)
Water resistant
ABS Plastic with protective rubber boot
Accepts all Type K thermocouple probes
Traceable to NIST standards
Rechargeable lithium ion battery
5-year warranty

Works as a standalone system with software residing on a local PC. Not Mac Compatible.

WATCH
THE
VIDEO!

The Must-Have Addition to Your HACCP Program!

HACCP Manager with 50012-K Angled Surface Probe *(see page 10)*

BENEFITS FOR MANAGEMENT

Saves Time: Shorter time to program and complete temperature logs - up to 50% time savings reported compared to manual logs!

Ensures Compliance: Helps to ensure temperature logs are done accurately and in the correct time period; substantial reduction in fraudulent dry-logging.

Guarantees Proper Documentation: Records include Employee Names, Locations, Product Descriptions, Temperature Tolerances, Actual Temperatures, Corrective Actions, Date and Time Stamps.

Reduces Costs: "going green" - conserves paper usage which adds up to significant money savings per year.

Increases Efficiency: Unlike paper logs, the HACCP Manager software allows you to organize data for analysis and custom reporting.

Enhances Quality of Operations: Allows you to electronically document other Yes/No requirements such as: inventory, bathroom checks, sanitation supplies, replenishment and closing tasks.

Provides Versatility: Cooper-Atkins offers more than 150 different Type K probe options for insertion as well as solid simulators (mimics core food temperatures in Walk-ins, Reach-ins and Grab-n-Go's); surface probes for griddle temperatures; dishwasher probes for rinse sanitation records; and Oven/Air probes etc.

BENEFITS FOR STAFF

Reduces Training Time: Easy-to-use, intuitive programming offers simplicity, allowing any level of employee to perform these important tasks.

Improves Morale and Attitude: Feedback from testing sites indicates that personnel enjoy completing the temperature logs because they are using advanced technology to complete their work.

Increases Accountability: The names of personnel completing logs are stored; For accountability, use the log analysis tools and reporting as positive reinforcement during employee evaluations.

Ensures Proper Action: When a temperature exceeds its preset limits, the handheld acknowledges it and the employee must choose a corrective action in order to move forward to the next item. Educating the employee on what do do for any given situation lessens confusion.

The planning and training involved in a paper-based HACCP food safety program is laborious, costly and can be a burden to your business.

The HACCP Manager™ system is the perfect solution!

- Replaces manual data collecting
- Saves the user time and money
- Decreases training times
- Increases employee accountability
- Custom menus and checklist storage
- Software and firmware updates via the web
- Real-time, color-coded alerts
- Identifies corrective actions for failed results
- Generates automated reports
- Exception based filtering
- Export reports to PDF and Excel format
- Ensures food is safe and improves health inspection scores

The Handheld is a portable data-collecting instrument designed to simplify the gathering of temperatures, manage standard checklist processes and document corrective actions.

Date	Time	Device ID	Category	Question	Corrective Action	User	Question Type	Answer
7/16/2013	09:28:09	PK80C307	Boiler Room Bucket	Repair or Replace (Y/N)		Employee #1	Yes No	No
7/16/2013	09:27:59	PK80C307	Boiler Room Bucket	Is Trap Working Correctly?		Employee #1	Yes No	Yes
7/16/2013	09:27:52	PK80C307	Boiler Room Bucket	Is Trap On?		Employee #1	Yes No	Yes
7/16/2013	09:27:43	PK80C307	Boiler Room Bucket	Steam Trap Delta-T Temp		Employee #1	Numeric	40.0
7/16/2013	09:27:28	PK80C307	Boiler Room Bucket	Steam Trap Outlet Temperature		Employee #1	Numeric	140.0
7/16/2013	09:27:14	PK80C307	Boiler Room Bucket	Steam Trap Inlet Temperature		Employee #1	Numeric	180.0
7/16/2013	09:27:01	PK80C307	Boiler Room Bucket	Is this a process trap?		Employee #1	Yes No	No
7/16/2013	09:26:48	PK80C307	Boiler Room Bucket	System Pressure (PSI)		Employee #1	Numeric	300.0

HACCP Manager Checklist Screen

SH66A-E 3-Zone Temperature Instrument
For applications when multiple temperature measurements are needed, this is the instrument to use. Simultaneously measure suction and liquid line temperatures, as well as temperatures across condensing coils, evaporator coils and ambient temperatures. View temperature differential between zones 1 and 2 and review min/max temperatures from all three zones. Features include: a backlit display for dark environments; a sealed keypad which protects the instrument from spills and dust; and a battery eliminator jack.

SH66A-E:
 • 1075 General Purpose Puncture Probe
 • 2010 Air Probe
 • 4011 Pipe Strap Probe

*SH66A-E-032:
 • 1075 General Purpose Puncture Probe
 • 2010 Air Probe
 • 4011 Pipe Strap Probe
 • Certificate of calibration traceable to NIST standards

SRH77A-E 3-Zone Temperature/Humidity Instrument
When temperature and relative humidity measurements are critical, the SRH77A-E is the expert's choice. View temperature differential, %RH and wet-bulb. You will find this to be an accurate and fast service tool. Features include: a backlit display for dark environments; sealed keypad which protects the instrument from spills and dust; and a battery eliminator jack. The bright blue, durable carrying case makes this tool easy to find when on location or in the back of a service truck.

SRH77A-E:
 • 1075 General Purpose Puncture Probe
 • 4011 Pipe Strap Probe
 • 5028 Slim Humidity Probe

*SRH77A-E-032:
 • 1075 General Purpose Puncture Probe
 • 4011 Pipe Strap Probe
 • 5028 Slim Humidity Probe
 • Certificate of calibration traceable to NIST standards

2010 / 1075 / 4011 / 5028

* Cooper-Atkins thermistor instruments are calibrated to temperature, electrical and/or resistance standards maintained by the company. The measurement results obtained through these standards are traceable to the U.S. Department of Commerce, National Institute of Standards and Technology (NIST). Used in HVAC/R applications where IAQ (Indoor Air Quality) and accuracy of measurements are critical to healthy environment indoor conditions and product safety such as hospitals, labs, schools, refrigeration of products and energy consumption.

4005I
Cordless Pipe Clamp Temperature Instrument
Includes 2.5" (64 mm) Retractable General Purpose Puncture Probe. Measure temperature of pipes up to 1.375" (35 mm) diameter.
 • Single-handed Use
 • Spring-loaded Probe to Ensure Repeatability
 • Auto shut-off After 5 Minutes of Non-use
 • Mode Button: Min, Max and Hold
 • Nylon, Belt-pouch (included)

4005I

	SH66A/SH66A-E-032	SRH77A/SRH77A-E-032	TM99A/TM99A-032	4005I
Temperature Range:	-40° to 300°F (-40° to 150°C)	-40° to 300°F (-40° to 150°C)	-40° to 302°F (-40° to 150°C)	-20° to 300°F (-29° to 149°C)
Accuracy:	±0.3°F (0.2°C) OR ±0.5% Rdg. whichever is greater	±0.3°F (0.2°C) OR ±0.5% Rdg. whichever is greater	±0.3°F (0.2°C) OR ±0.5% Rdg. whichever is greater	Clamp: ±3°F (2°C) from 14° to 212°F (-10° to 100°C), Probe: ±3°F (2°C)
Humidity Range:	-	10 to 95% RH	-	-
Humidity Accuracy:	-	±2% from 20 to 80% RH ±3% below 20% and above 80% RH	-	-
Resolution:	0.1°	0.1° 1% RH	0.1°	0.1°
Display - LCD:	2" x .875" (51 mm x 22 mm)	2" x .875" (51 mm x 22 mm)	.5" (13 mm)	.25"x .875" (6 mm x 22 mm)
Backlight:	Yes	Yes	Yes	No
Min / Max:	Yes	Yes	Yes	Yes
Hold:	No	No	Yes	Yes
Ambient Operating Range:	0° to 130°F (-18° to 54°C) Up to 90% RH non-condensing	0° to 130°F (-18° to 54°C) Up to 90% RH non-condensing	32° to 122°F (0° to 50°C)	0° to 120°F Up to 90% RH non-condensing
Case Material:	Polyetheylene	Polyetheylene	ABS	Plastic
Weight:	1 lb 5 oz (595 g)	1 lb 5 oz (595 g)	5 oz (142 g)	5 oz (142 g)
Power:	(1) 9V Alkaline	(1) 9V Alkaline	(2) AAA Alkaline	(1) 1.5V LR44
Auto Shut-off:	Yes (after 15 mins)	Yes (after 15 mins)	Yes (after 5 mins)	Yes (after 5 mins)
Battery Life:	90 hours	90 hours	1800 hours	90 hours
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	RoHS
Warranty:	5 year instrument/1 year probe	5 year instrument/1 year probe	5 year instrument/1 year probe	1 year

TM99A Series
Thermistor Temperature Instrument
For applications where only one temperature is needed. It features Min/Max Memory, Hold, Auto-shutoff and an LCD backlight for dark environments.

TM99A:
- 1075 General Purpose Puncture Probe
- 9339 Soft, Carrying/Storage Pouch

TM99A-032:
- 1075 General Purpose Puncture Probe
- 9339 Soft, Carrying/Storage Pouch
- Certificate of calibration traceable to NIST standards

TM99A-V:
- 1050 Blunt-tip Veterinary Probe
- 9339 Soft, Carrying/Storage Pouch

9320-032/9321-032
Prover Calibration Box
Test and validates the calibration accuracy of Cooper-Atkins Thermistor Instruments. The 9320 simulates four preset Fahrenheit temperatures of -10°F, 32°F, 72°F and 140°F. The 9321 simulates four preset Celsius temperatures of -25°C, 0°C, 20°C, and 60°C.
- 1-year Warranty
- Certificate of calibration traceable to NIST standards

TM99A

Thermistor Probes

Needle Probes

All Thermistor Temperature Probes are interchangeable with all Cooper-Atkins Thermistor Instruments.

	1013	1014	1030	1050	1052	1075	1078	6000
Description:	Meat-Packing Puncture Probe	17" Puncture Probe	Screw-in Puncture Probe	Blunt-tip Veterinary Probe	Needle Probe	General Purpose Puncture Probe	7" Puncture Probe	18" Flexible Thermistor Probe
Temperature Range:	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-25° to 200°F (-40° to 93°C)
Max Tip Temperature:	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	200°F (93°C)
Max Cord Temperature:	200°F (93°C)	200°F (93°C)	400°F (204°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
Response Time (liquid):	6 seconds	100 seconds	20 seconds	6 seconds	4 seconds	6 seconds	6 seconds	50 seconds
Shaft Length:	3.75" (95 mm)	17" (430 mm)	2.5" (64 mm)	3.5" (89 mm)	2.9" (74 mm)	3.75" (95 mm)	7" (178 mm)	18" (457 mm)
Shaft Diameter:	0.140" (4 mm)	0.25" (6 mm)	0.165" (4 mm)	0.125" (3 mm)	0.041" (1 mm)	0.146" (3.6 mm)	0.140" (4 mm)	0.156" (4 mm)
Cord Length:	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (straight)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	12' (3.7 m) PVC (straight)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

1013
Meat-Packing Puncture Probe

1014
17" Puncture Probe with Heavy-Duty Cord

1030
Screw-in Probe with 1/8" NPT Fitting

1050
Blunt-Tip Veterinary Probe

1052
Needle Probe
(use with Pete's Plugs)

1075
General Purpose Puncture Probe

1078
7" Puncture Probe

Surface Probes   Air Probes

	3010	4005	4011	4040	7010	2007	2010	5005	5028
Description:	Plastic Shaft Probe	Pipe Clamp Probe	Pipe Strap Probe	Fast Response Surface Probe	Air/Surface Probe	Blunt Tip Veterinary Probe	Air Probe	Air Probe	Slim Temp/ Humidity Probe
Temperature Range:	-40° to 200°F (-40° to 93°C)	-14° to 212°F (-10° to 100°C)	-25° to 212°F (-32° to 100°C)	-40° to 300°F (-40° to 149°C)	-40° to 200°F (-40° to 93°C)	-40° to 300°F (-40° to 149°C)	-40° to 200°F (-40° to 93°C)	-40° to 300°F (-40° to 149°C)	0° to 150°F (-18° to 66°C)
Humidity Range:	-	-	-	-	-	-	-	-	10 to 95% RH
Max Tip Temperature:	200°F (93°C)	200°F (93°C)	212°F (100°C)	300°F (149°C)	200°F (93°C)	300°F (149°C)	200°F (93°C)	300°F (149°C)	150°F (66°C)
Max Cord Temperature:	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	400°F (204°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
Response Time:	15 seconds	12 seconds	-	15 seconds	20 seconds	6 seconds	20 seconds	-	30 seconds
Shaft Length:	3" (76 mm)	-	-	3.5" (89 mm)	0.160" (4 mm)	4" (102 mm)	0.5" (13 mm)	4" (102 mm)	4.9" (125 mm)
Shaft Dia.:	0.156" (4 mm)	-	-	0.310" (Tip) (8 mm)	0.5" (13 mm)	0.140" (4 mm)	0.160" (4 mm)	0.125" (3 mm)	0.25" (6 mm)
Cord Length:	6' (1.8 m) polyurethane (uncoiled)	10' (3 m) TPE (uncoiled)	12' (3.7 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (152 mm) PVC cord (straight)	10' (3.0 m) PTFE (straight)	12' (3.6 m) polyurethane (straight)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) PVC (uncoiled)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

4005
Pipe Clamp Probe
(Maximum 1-3/8" Ø Pipe Clamp Opening)

2007
Blunt Tip Veterinary Probe

2010
Air Probe

4011
Pipe Strap Probe
(Strap, 11" Long x 1/2" Wide approx.)

4040
Fast Response Surface Probe

5028
Slim Temp/Humidity Probe

9010 10 ft./**9015** 50 ft.
Extension Cable

TravAlert™ is most commonly used for monitoring storage temperatures during transportation and provides highly accurate data for use in the foodservice and industrial markets. It can also be used to monitor and record temperatures of stationary refrigeration units or warm holding cabinets. The self-powered Data Logger is a time and temperature, PC interfacing device that can record up to 2,048 temperatures (in intervals from 1 minute to 4 hours) and is splash, dirt and impact resistant.

1. Program　　　　　**2. Locate**　　　　　**3. Report**

2300
TravAlert™ Data Logger Kit
 • 9387 Data Logger (5)
 • 9364 i-Button Reader Cable (2)
 • 9365 USB Adapter (2)
 • 9386 Software CD (2)
 • 9378 Disposable 3" x 4" Pouches (100) *(not shown)*

SPECIFICATIONS
Temperature Range: -40° to 185°F (-40° to 85°C)
Accuracy: ±2°F (±1°C) from -22° to 176°F (-30° to 70°C)
Resolution: 1°F (0.5°C) increments
Recording Intervals: 1- 255 user-programmable intervals up to 2,048 readings
Tag: ABS plastic tag with stainless steel button
Water resistant
Re-programmable for multiple uses
Battery: Lithium
Warranty: 1 year

FEATURES
Unique user-defined session identity
Go/No-Go Icon for immediate visual (based on user-defined parameters)
All readings for session shown in graph and tabular format
Printable to PDF at destination
Quick session summary display

SYSTEM REQUIREMENTS
Windows XP, Vista, Windows 7
Universal Serial Bus (USB) port
512 MB of memory
500 MB of hard disk space
Compact Disk (CD) drive

GL100
Water-resistant, Mini Data Loggers
Data logger tag monitors both time and temperature
• Temperature Range: -40° to 185°F (-40° to 85°C)
• Temperature Accuracy: ±2F° from -4° to 158°F
　(±1C° from -20° to 70°C)
• Clock Accuracy: ±2 minutes per month
• PC Requirements: Windows 95 or higher (minimum of 10MB
　of hard-drive space) and a CD-Rom drive
• 1-year warranty

Not compatible with Macintosh computers.

GL100
• Two (2) mini data loggers
• Two (2) mounts
• Reader and software

Dual Input Thermocouple Kits

The TD2000 is a dual-input, Type K thermocouple instrument designed to monitor two zones simultaneously. The TD2000 is ideal for monitoring in/out flow lines of cooling and heating units and displays Max temperature and Delta-T calculations. It includes a protective rubber boot and has a temperature range up to 2000°F. The TD2000-01 Kit includes two Bead Tip probes and a Needle probe (for internal measurement of liquids or solids). The TD2000-02 Kit includes two 54011-K Pipe Strap Surface probes and a soft carrying pouch.

	TD2000-01	TD2000-02
Temperature Range:	-58° to 2000°F (-50° to 1093°C)	-58° to 2000°F (-50° to 1093°C)
Accuracy:	±4°F (2°C) from -58° to 32°F (-50° to 0°C) ±0.3% +2°F (1°C) from 32° to 2000°F (0°C to 1093°C)	±4°F (2°C) from -58° to 32°F (-50° to 0°C) ±0.3% +2°F (1°C) from 32° to 2000°F (0°C to 1093°C)
Resolution:	1°	1°
Housing:	ABS	ABS
Hold:	Yes	Yes
Backlight:	No	No
Waterproof:	No	No
Power:	(1) 9V	(3) 1.5V AAA
Battery Life:	200 hours	200 hours
Auto Off:	10 min.	10 min.
Weight:	10.7 oz (303 g)	10.7 oz (303 g)
Regulatory Listings:	CE	CE
Warranty:	5 year	5 year

TD2000-01
Dual Input Thermocouple Kit
• TD2000 Thermocouple Instrument
• (2) 6030MK Bead Tip Probes
• 31901-K Needle Probe

TD2000-02
Dual Input Thermocouple Kit
• TD2000 Thermocouple Instrument
• (2) 54011-K Pipe Strap Surface Probes
• 14057 Soft Pouch

The **EconoTemp™** series employs state-of-the-art technology in economy thermocouple instruments. Designed with a powerful microprocessor and a unique memory which stores calibration settings, it will never need recalibration. A rubber boot protects the ABS plastic housing delivering impact ratings not found in other economy models. Supplied with a 9368 Wall-mount bracket and lanyard.

	32311-K	32322-K
Temperature Range:	-40° to 500°F (-40° to 260°C)	-40° to 1000°F (-40° to 538°C)
Accuracy:	±1°F (±0.5°C)	±1°F (±0.5°C)
Resolution:	1°	1.0 / 0.1°
Housing:	ABS	ABS
Hold:	No	No
Backlight:	No	No
Waterproof:	No	No
Power:	(3) 1.5V AAA	(3) 1.5V AAA
Battery Life:	4500 hours	1500 hours
Auto Off:	10 min.	10 min.
Wall Mounting Bracket:	Yes	Yes
Weight:	6 oz (170 g)	6 oz (170 g)
Regulatory Listings:	CE NSF COMPONENT RoHS	CE RoHS
Warranty:	5 year	5 year

**32311-K
EconoTemp™**

**32322-K
EconoTemp™ Plus**
• High temperature range
• 10th degree resolution up to 495ºF (257ºC)

**94020-K
EconoTemp™ Direct Connect Combo Pack**
• 32311-K Thermocouple Instrument
• 50337-K Direct Connect DuraNeedle Probe
• Wall-mount bracket
• Response Time: 1 second

**93230-K
EconoTemp™ Combo Pack**
• 32311-K Thermocouple Instrument
• 50336-K DuraNeedle Probe
• Wall-mount bracket
• Response Time: 2 seconds

AquaTuff™ Wrap&Stow™ Thermocouple Instruments have a unique memory chip that stores calibration settings. They are highly accurate, NIST traceable and most importantly, as the AquaTuff™ name implies, extremely durable and IPX7 waterproof rated for even greater reliability in harsh environments. Integral probe and cable storage enclosure designs are available where the probe is factory calibrated to the instrument. The AquaTuff™ 35100-K or 35200-K allow for maximum versatility since the instrument can be used with any Type K Thermocouple probes.

35100-K
AquaTuff™

35132
AquaTuff™ Wrap&Stow™
with DuraNeedle™ Probe

35135
AquaTuff™ Wrap&Stow™
with Angled Surface Probe

35140
AquaTuff™ Wrap&Stow™
with MicroNeedle Probe

AquaTuff™ Series Wrap&Stow™ Probes

DuraNeedle Probes are best used to measure insertion and immersion temperatures. They are quick and durable for dependable performance, and are included with the 35132 and 35232. To order replacement DuraNeedle Probes, use model number 55032.

MicroNeedle Probes are designed to provide the greatest response times with minimal impact on the product, and are included with the 35140 and 35240 and 35340. To order replacement MicroNeedle Probes, use model number 55040.

Surface Probes are designed for use on any flat surface. Probe self-adjusts to the surface, giving superior contact and is included with the 35135 and 35235. To order replacement Surface Probes, use model number 55035.

AquaTuff™ 351 Series

	35100-K	35132	35135	35140
Temperature Range:	-100° to 999°F (-73° to 537°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)
Accuracy:	±0.5°F (±0.3°C)	±0.9°F (±0.5°C) [1] Total System	±0.5°F (±0.3°C) [3]	±0.9°F (±0.5°C) [1] Total System
Resolution:	0.1°	0.1°	0.1°	0.1°
Housing:	ABS	ABS	ABS	ABS
Hold:	No	No	No	No
Backlight:	No	No	No	No
Waterproof:	Yes	Yes	Yes	Yes
Power:	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA
Battery Life:	1800 hours	1800 hours	1800 hours	1800 hours
Auto Off:	10 min.	10 min.	10 min.	10 min.
Wall Mounting Bracket:	Optional	Optional	Optional	Optional
Weight:	5 oz (142 g)	7 oz (199 g)	8 oz (227 g)	7 oz (199 g)
Regulatory Listings:	CE NSF COMPONENT RoHS	CE NSF RoHS	CE RoHS	CE NSF RoHS
Warranty:	5 year	5 year instrument/ 1 year probe	5 year instrument/ 1 year probe	5 year instrument/ 1 year probe

NOTE:
All EconoTemp™ Series and AquaTuff™ Series units are traceable to NIST standards.
[1] Total System Accuracy™ (probe and instrument) over entire range.
[2] Tenth degree/whole degree resolution, selectable.
[3] Accuracy spec for instrument only. Surface probe temperature error for flat, clean, oiled surfaces with 1kg pressure are typically within +1.5°C and -3.5°C without thermostat cycling.

35200-K
AquaTuff™

35232
AquaTuff™ Wrap&Stow™
with DuraNeedle™ Probe

35240
AquaTuff™ Wrap&Stow™
with MicroNeedle Probe

AquaTuff™ 352/353 Series

	35200-K	35232	35235	35240
Temperature Range:	-100° to 999°F (-73° to 537°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)
Accuracy:	±0.5°F (±0.3°C)	±0.9°F (±0.5°C) [1] Total System	±0.5°F (±0.3°C) [3]	±0.9°F (±0.5°C) [1] Total System
Resolution:	0.1° [2]	0.1° [2]	0.1° [2]	0.1° [2]
Housing:	ABS	ABS	ABS	ABS
Hold:	Yes	Yes	Yes	Yes
Backlight:	Yes	Yes	Yes	Yes
Waterproof:	Yes	Yes	Yes	Yes
Power:	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA
Battery Life:	1800 hours	1800 hours	1800 hours	1800 hours
Auto Off:	10 min.	10 min.	10 min.	10 min.
Wall Mounting Bracket:	Optional	Optional	Optional	Optional
Weight:	5 oz (142 g)	7 oz (199 g)	8 oz (227 g)	7 oz (199 g)
Regulatory Listings:	CE NSF₁ RoHS	CE NSF RoHS	CE RoHS	CE NSF RoHS
Warranty:	5 year	5 year instrument/1 year probe	5 year instrusment/ 1 year probe	5 year instrument/ 1 year probe

IPX7 Waterproof

All the **AquaTuff™** instruments are IPX7 waterproof rated and durable for harsh environments.

An IPX7 level reading means the instrument can be submerged in 1 meter of water for 30 minutes without water damage.

93916-K
Screen Print Kit
• 35200-K AquaTuff™ Thermocouple Instrument
• 50008-K Screen Print Donut Probe with 15' Cord
• 10830 Spare Wires
• 14235 Hard Carrying Case

Cooper-Atkins builds all of our probes in our Connecticut Headquarters facility, so you can rely on us to custom design and manufacture a probe for your specific needs. All Cooper-Atkins probes are manufactured in an ISO 9001-2008 facility in the United States.

Needle Probes

	31901-K	39035-K	49122-K	49135-K	50101-K	50143-K	50145-K	50207-K
Description:	1/8" Needle Probe - (Petite Handle)	1/8" Needle Probe	Ultra-Fine Product Probe	1/8" Rugged Needle Probe	Frozen Product Needle Probe	Heavy-Duty Needle Probe	1/8" Rugged Needle Probe	MicroNeedle Chisel Tip Probe (Direct Connect)
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-100° to 500°F (-73° to 260°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	500°F (260°C)	400°F (205°C)	400°F (205°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	221°F (105°C)	400°F (205°C)	400°F (205°C)	176°F (80°C)	176°F (80°C)	-
Response Time (liquid):	4 seconds	4 seconds	3 seconds	4 seconds	4 seconds	5 seconds	4 seconds	1 second
Shaft Length:	4" (102 mm)	4" (102 mm)	4" (102 mm)	4" (102 mm)	3" (76 mm)	4" (102 mm)	4" (102 mm)	3.75" (95 mm)
Cable Length Max Extended:	24" (610 mm) w/ Silicone Jacket	36" (914 mm) w/ FEP Jacket	36" (914 mm) w/ PVC Jacket	36" (914 mm) w/ FEP Jacket	30" (762 mm) w/ Flexible Armored Cable	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)
Weight:	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	4 oz (113 g)	1 lb (454 g)	5 oz (142 g)	4 oz (113 g)	0.5 oz (14 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

50336-K DuraNeedle Probe

50012-K Angled Shaft Surface Bell Probe

Needle Probes

	50209-K	50210-K	50263-K	50334-K	50335-K	50336-K	50337-K	50360-K	50361-K
Description:	MicroNeedle Probe	MicroNeedle Probe (Direct Connect)	60° Patty Probe	4" DuraNeedle Probe	4.5" Needle Probe	DuraNeedle Probe	DuraNeedle Probe (Direct Connect)	Oven Needle Probe	Meat Probe
Temperature Range:	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 400°F (-40° to 205°C)
Max Tip Temperature:	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	400°F (205°C)
Max Cable Temperature:	176°F (80°C)	-	176°F (80°C)	400°F (205°C)	176°F (80°C)	176°F (80°C)	-	600°F (316°C)	400°F (205°C)
Response Time (liquid):	1 second	1 second	1 second	1 second	4 seconds	2 seconds	1 second	2 seconds	4 seconds
Shaft Length:	3.5" (89 mm)	3.75" (95 mm)	8" (203 mm)	4" (102 mm)	4.5" (114 mm)	6" (153 mm)	4" (102 mm)	5.5" (140 mm)	3.875" (98 mm)
Cable Length Max Extended:	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)	48" (1.2 m) w/ Polyurethane Jacket	34" (864 mm) w/ Fluoroelastomer Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)	35" (889 m) w/ Stainless Steel Overbraid	10' (3 m) w/ Flexible Armor
Weight:	2 oz (57 g)	0.5 oz (14 g)	3 oz (85 g)	2 oz (57 g)	2 oz (57 g)	2 oz (57 g)	0.5 oz (14 g)	1 oz (28 g)	6 oz (170 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

4005MK Pipe Clamp Probe

High Temperature Probes   Pipe Probes   Fry Vat Probes

	49126-K	49127-K	49140-K	50426-K	50427-K	4005MK	54011-K	50200-K	50208-K
Description:	Reduced Tip Puncture Probe	Reduced Tip Probe (Direct Connect)	High Temperature Probe	4" Reduced Tip Probe	12" Reduced Tip Probe	Pipe Clamp Surface Probe	Pipe Strap Surface Probe	High Temperature Probe	Fry Vat Insertion Probe
Temperature Range:	32° to 932°F (0° to 500°C)	32° to 932°F (0° to 500°C)	32° to 2012°F (0° to 1100°C)	32° to 932°F (0° to 500°C)	32° to 932°F (0° to 500°C)	-20° to 300°F (-29° to 149°C)	-25° to 300°F (-32° to 149°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)
Max Tip Temperature:	932°F (500°C)	932°F (500°C)	2012°F (1100°C)	932°F (500°C)	932°F (500°C)	300°F (149°C)	300°F (149°C)	400°F (205°C)	400°F (205°C)
Max Cable Temperature:	400°F (205°C)	-	400°F (205°C)	176°F (80°C)	176°F (80°C)	220°F (104°C)	220°F (104°C)	400°F (205°C)	400°F (205°C)
Response Time:	1 second liquid	1 second liquid	2 seconds liquid	1 second liquid	1 second liquid	2 seconds on pipe	Varies on pipe	12 seconds liquid	8 seconds liquid
Shaft Length:	4" (102 mm)	4" (102 mm)	24" (610 mm)	4" (102 mm)	12" (305 mm)	-	-	8" (203 mm)	7.3" (185 mm)
Cable Length Max Extended:	36" (914 mm) w/ FEP Jacket	Direct Connect (no cable)	36" (914 mm) w/ Flexible Armor	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) Polyurethane Jacket	10' (3 m) w/ Polyurethane Jacket	10' (3 m) w/ Polyurethane Jacket	36" (914 mm) w/ FEP Jacket	30" (762 mm) w/ Flexible Armor
Weight:	4 oz (113 g)	.5 oz (14 g)	6 oz (170 g)	5 oz (142 g)	5 oz (142 g)	5 oz (142 g)	2 oz (57 g)	2 oz (57 g)	3 oz (85 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

54011-K Pipe Strap Probe

Air Probes

	31903-K	31905-K	39032-K	49138-K	50302-K	50305-K	50306-K	50332-K	50338-K
Description:	Hand-held Air Probe	Bare Tip Air Probe	Hand-Held Air Probe	Bare Tip Air Probe	Industrial Air Probe	Freezer/Cooler Probe	Oven/ Freezer Probe	Hand-Held Air Probe	Industrial Air Probe
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-328° to 400°F (-200° to 205°C)	32° to 896°F (0° to 480°C)	32° to 896°F (0° to 480°C)	-40° to 400°F (-40°to 205°C)	-100° to 600°F (-73° to 316°C)	-100° to 500°F (-73° to 260°C)	32° to 896°F (0° to 480°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	896°F (480°C)	896°F (480°C)	400°F (205°C)	600°F (316°C)	500°F (260°C)	896°F (480°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	896°F (480°C)	896°F (480°C)	176°F (80°C)	600°F (316°C)	176°F (80°C)	896°F (480°C)
Response Time :	9 seconds in 5 m/sec. air	1 sec. liquid & 3 sec. 5 m/ sec. air	11 seconds in 5 m/sec. air steam	1 second liquid 9 sec. 5 m/ sec. air	1 second liquid 10 sec. 5 m/ second air	25 seconds air	1 second liquid 10 sec. 5 m/ second air	10 seconds in 5 m/sec. air	1 second liquid 9 seconds in 5m/sec. air
Shaft Length:	4" (102 mm)	-	4" (102 mm)	-	2.125" (54 mm)	-	2.125" (54 mm)	4" (102 mm)	-
Cable Length Max Extended:	24" (610 mm) w/ Silicone Jacket	24" (610 mm) w/ Silicone Jacket	36" (914 mm) w/ FEP Cable	48" (1.2 m) w / Fiberglass Jacket	46.5" (1.2 m) w/ Fiberglass Jacket	24" (610 mm) w/ FEP Jacket	43" (1.1 m) w/ Stainless Steel Overbraid	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w / Fiberglass Jacket
Weight:	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	3 oz (85 g)	1 oz (28 g)	2 oz (57 g)	1 oz (28 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

50306-K
Air Probe for oven or cooler/freezer with clip

Surface Probes

	31907-K	50001-K	50008-K	50010-K	50012-K	50014-K	50069-K	50316-K	50318-K	50319-K	50405-K
Description:	Surface Probe - petite handle	Right Angle Bell Surface Probe	Silkscreen Probe	Tape Surface Probe	120° Angled Shaft Surface Bell Probe	Weighted Griddle Surface Probe	Moving Surface Bow Probe	1/8" Surface/ Immersion Probe - flat tip	Ceramic Tip Surface Probe	90° Ceramic Tip Surface Probe	Blunt Tip Probe
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 1202°F (-40° to 650°C)	-40° to 1202°F (-40° to 650°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	400°F (205°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	1202°F (650°C)	1202°F (650°C)	500°F (260°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	400°F (205°C)	176°F (80°C)	400°F (205°C)	221°F (105°C)	176°F (80°C)	176°F (80°C)	176°F (80°C)	-
Response Time:	5 seconds on (oiled surface)	7 seconds (oiled surface)	1 second (liquid)	9 seconds on (metal surface)	4 seconds (oiled surface)	2 seconds (oiled surface)	4 seconds (oiled surface)	6 seconds (metal surface) / 1 second (liquid)	1 second (oiled surface)	1 second (oiled surface)	6 seconds (oiled surface) 1 second (liquid)
Shaft Length:	4" (102 mm)	9" (229 mm)	-	-	4.5" (114 mm)	-	8" (203 mm)	4" (102 mm)	4" (102 mm)	5" (127 mm)	7.5" (190 mm)
Cable Length Max Extended:	24" (610 mm) w/ Silicone Jacket	30" (762 mm) w / Flexible Armored Cable	15" (381 mm) w/ Silicone Jacket	36" (914 mm) w/ FEP Jacket	48" (1.2 m) w/ Polyurethane Jacket	30" (762 mm) w / Flexible Armored Cable	36" (914 mm) w/ PVC Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)
Weight:	1 oz (28 g)	6 oz (170 g)	3 oz (85 g)	1 oz (28 g)	5 oz (142 g)	2 lbs (907 g)	6 oz (170 g)	2 oz (57 g)	5 oz (142 g)	6 oz (170 g)	.5 oz (14 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

Miscellaneous Probes

	39138-K	49136-K	50121-K	50415-K	50701-K	52048-K
Description:	Bare-Tip Probe	Bendable Tip Probe	Racing Tire Probe	Dishwasher Probe	Combo Probe	Product Simulator
Temperature Range:	-328° to 400°F (-200° to 205°C)	32° to 1652°F (0° to 900°C)	-40° to 500°F (-40° to 260°C)	-67° to 221°F (-55° to 105°C)	-100° to 500°F (-73° to 260°C)	-40° to 180°F (-40° to 82°C)
Max Tip Temperature:	400°F (205°C)	1652°F (900°C)	500°F (260°C)	221°F (105°C)	500°F (260°C)	180°F (82°C)
Max Cable Temperature:	400°F (205°C)	221°F (105°C)	176°F (80°C)	221°F (105°C)	400°F (205°C)	-
Response Time :	1 sec. liquid & 7 sec. 5 m / sec. air	1 second liquid	1 second liquid	9 seconds in 5 m / sec. air	2 seconds liquid	Stabilization of Simulator - up to 2 hours
Shaft Length:	-	7" (178 mm)	0.1875" (5 mm)	-	35" (889 mm)	-
Cable Length Max Extended:	36" (914 mm) w/ FEP Jacket	36" (914 mm) w/ PVC Jacket	48" (1.2 m) w/ Polyurethane Jacket	15' (4.6 m) w/ PVC Jacket	36" (914 mm) w/ Fluoroelastomer Jacket	6" (152 mm) Flexible Cable w/ FEP Jacket
Weight:	1 oz (28 g)	1 oz (28 g)	4 oz (113 g)	3 oz (85 g)	15 oz (425 g)	2.5 oz (71 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year

NOTE: Most probes are available in Type J and Type T configurations.

52048-K
Product Simulator Probe

For a complete inventory of probes see our online catalog via the QR code below.

ATKINS
Thermocouple Instrument
& Probe Catalog

SCAN HERE

Digital Panel Thermometers

Cooper-Atkins' panel meters allow you to obtain accurate interior temperature readings remotely from outside the cabinet. They reduce the frequency of opening your cooler/freezer door and keep the cold air in and the hot air out. All are designed for retro-fit applications.

	SP160-0 SP160-01	SP120	PM120	PM180
Temperature Range:	-58° to 158°F (-50° to 70°C)	-58° to 158°F (-50° to 70°C)	-40° to 122°F (-40° to 50°C)	-25° to 180°F (-32° to 82°C)
Accuracy:	±1°F (0.5°C) from 32° to 122°F (0 to 50°C) ±2°F from -4° to 32°F (-20° to 50°C) ±3.6°F/2°C <-4°F (-20°C) and > 122°F (50°C)	±2°F (±1°C)	±1.8°F (±1°C) from -4° to 122°F (-20° to 50°C) ±3.6°F (±2C°) below -4°F (20°C)	±2°F (±1°C)
Resolution:	0.1°	0.1°	0.1°	0.1°/1% RH
Ambient Operating Range:	0° to 120°F up to 90% non-condensing	0° to 120°F up to 90% non-condensing	0° to 120°F up to 90% non-condensing	0° to 120°F up to 90% non-condensing
Response Time:	10 second updates	30 seconds 10 second updates	30 seconds	5 second updates
LCD:	1.4" x 0.5" (36 mm x 13 mm)	1.875" x 0.625" (48 mm x 16 mm)	1.875" x 0.625" (48 mm x 16 mm)	1.875" x 0.625" (48 mm x 16 mm)
Lead Length:	48" (1.2 m)	10' (3 m)	39" (1 m)	39" (1 m)
Case Material:	ABS	ABS	Polycarbonate	Polycarbonate
Case Dimensions:	4.5" x 1.125" x .625" (114 mm x 29 mm x 16 mm)	2.75" x 2.75" x .75" (70 mm x 70 mm x 19 mm)	2.7" x 1.4" x 1.1" (69 mm x 36 mm x 28 mm)	2.75" x 1.5" x 1" (70 mm x 38 mm x 25 mm)
Power:	Solar w/ battery back-up (1) 1.5V AAA	Solar w/ battery back-up (1) 1.5V A76	(1) 1.5V AA	(1) 1.5V AA
Mounting:	Hangs	Hangs	Optional Mounting Flange (Model 9302)	Hangs of Stands
Weight:	3 oz (85 g)	2.5 oz (71 g)	2 oz (57 g)	5 oz (142 g)
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	CE RoHS
Warranty:	1 year	1 year	1 year	1 year

SP Series Solar Powered Instruments
Meter operates using ambient light (natural, fluorescent and incandescent) and have a Lux rating above 100. When the ambient light is not strong enough to power the meter, the 1.5V battery automatically turns the unit on.

PM180
Dual-Cool™ Panel Thermometer
 • Min/Max alarm settings
 • Hi/Lo temperature recall
 • Interchangeable probes

PM180-01
 • PM180 Panel Thermometer
 • 2013 Air Probe
 • 2113 Solid Simulator Probe

PM180-02
 • PM180 Panel Thermometer
 • (2) 2013 Air Probe

PM180-03
 • PM180 Panel Thermometer
 • (2) 2113 Solid Simulator Probe

SP160-0
Solar Powered
Panel Meter
 • 4' cord
 • Black case

SP160-1
Solar Powered
Panel Meter
 • 4' cord
 • White case

SP120
Solar Powered
Panel Meter
 • 10' cord

PM120
Mini Remote-Reading
Thermometer
For use when mounting space is limited.
 • Min/Max feature
 • 9302 Mounting flange available

NOTE: PM120 & PM180 are not solar powered instruments

Digital Panel Thermometers

	PMRH120	DM120 Series	DM450	DTT361
Temperature Range:	-12° to 140°F (-24° to 60°C)	-40° to 120°F (-40° to 48°C)	-40° to 450°F (-40° to 230°C)	32° to 392°F (0° to 200°C)
Accuracy:	±2°F (±1°C) ±5% RH from 30° to 75%RH/ at 32° to 122°F (0° to 50°C)	±2°F (±1°C)	±2°F (±1°C) from -40° to 300°F ±2% of reading from 301° to 450°F	±9°F (±4°C) from 159° to 266°F (71° to 130°C) ±11°F (±5C°) from 267° to 320°F (131° to 160°C) ±14°F (±7C°) from 321° to 392°F (161° to 200°C)
Resolution:	0.1°/1% RH	0.1°	0.1°	0.1°
Ambient Operating Range:	0° to 120°F up to 90% non-condensing	15° to 150°F up to 90% non-condensing	0° to 150°F up to 90% non-condensing	4° to 122°F
Response Time:	5 seconds	30 second updates	30 seconds 10 second updates	-
LCD:	1.875" x 0.625" (48 mm x 16 mm)	1.3" x 0.5" (33 mm x 13 mm)	1.3" x 0.5" (33 mm x 13 mm)	1.875" x 1.375" (48 mm x 35 mm)
Lead Length:	39" (1 m)	39" (1 m)	39" (1 m)	44" (1.1 m)
Case Material:	Polycarbonate	Stainless Steel	Stainless Steel	ABS Plastic
Case Dimensions:	2.75" x 1.5" x 1" (70 mm x 38 mm x 25 mm)	**DM120** 3.0" x 1.375" (76 mm x 27 mm) **DM120S** 3.47" x 1.1" (88 mm x 28 mm)	**DM450** 3.0" x 1.375" (76 mm x 27 mm)	4" x 2 1/2" x 1.375" (102 mm x 64 mm x 35 mm)
Power:	(1) 1.5V AA	(1) 1.5V #LR754	(1) 1.5V #LR754	(1) 1.5V AAA
Mounting:	Optional Front Flange	**DM120** Front Flange **DM120S** Back Flange	Front Flange	Wall-mount bracket with magnet
Weight:	2.5 oz (71 g)	**DM120** 2.5 oz (71 g) **DM120S** 3.5 oz (999 g)	3 oz (85 g)	4 oz (113 g)
Regulatory Listings:	CE RoHS	CE NSF COMPONENT RoHS	CE RoHS	CE RoHS
Warranty:	1 year	1 year	1 year	1 year

PMRH120
Mini Remote-Reading Thermometer/Hygrometer
• Min/Max feature
• 9302 Mounting flange available

DTT361
Cooking Thermo/Timer
• Wall-mount bracket with magnet
• Temperature/Time/Alarm

DM120/DM450 Series
Front flange for flush mounting or back flange for surface mounting to cabinet and/or enclosure. The removable 2" (51 mm) diameter polycarbonate lens makes battery replacement easy.

DM120
Front Flange Back Connect Panel Thermometer

DM450
Front Flange Back Connect Panel Thermometer

Vapor Tension Panel Thermometers

Used in many HVAC/R applications, these units are the perfect choice for use in walk-in refrigerators, tanks, refrigerated display cases, holding and specialty cabinets, dairy cases, freezers, floral displays and much more. They are able to obtain interior temperature readings remotely from outside of the cabinet and can be retro-fitted.

- Nickel/tin-plated bulb and capillary
- Polycarbonate lens/bezel
- Stainless steel cases

6142-20
Front Flange
Back Connect Panel
Thermometer

6642-12
Remote Vapor Tension Panel Thermometer

	6142-06	6142-13	6142-20	6142-58
Temperature Range:	40° to 240°F (10° to 115°C)	-40° to 120°F (-40 to 50°C)	-40° to 60°F (-40° to 15°C)	-40° to 60°F (-40° to 15°C)
Accuracy:	±2°F (±1°C) from 140° to 210°F (60 to 99°C)	±2°F (±1°) at 10° and 40°F (-12° and 4.5°C) ±5°F (±2.5°C) at 110°F (43°C)	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)
Dial Dimension:	2" (51 mm)	2" (51 mm)	2" (51 mm)	2" (51 mm)
Capillary Length:	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	20' (6.1 m)
Flange:	Front	Front	Front	Front
Connection:	Back	Back	Back	Back
Mounting:	Flush	Flush	Flush	Flush
Weight:	5 oz (142 g)	5 oz (142 g)	5 oz (142 g)	7 oz (198 g)
Regulatory Listings:	NSF COMPONENT RoHS	NSF COMPONENT RoHS	NSF COMPONENT RoHS	NSF COMPONENT RoHS
Warranty:	1 year	1 year	1 year	1 year

6742-19
U Bracket Back Connect Panel Thermometer

	6642-06	6642-12	6742-19	6812-01	6812-02
Temperature Range:	-40° to 60°F (-40° to 15°C)	40° to 240°F (10 to 115°C)	-40° to 60°F (-40° to 15°C)	-40° to 60°F (-40° to 15°C)	-40° to 120°F (-40° to 50°C)
Accuracy:	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C)	±2°F (±1°C) from 140° to 210°F (60° to 99°C)	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C)	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C) ±5°F (±2.5°C) at 110°F (43°C)
Dial Dimension:	2" (51 mm)	2" (51 mm)	2" (51 mm)	2" (51 mm)	2" (51 mm)
Capillary Length:	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)
Flange:	Strap Hanger no flange	Strap Hanger no flange	U-Bracket no flange	Back	Back
Connection:	Bottom	Bottom	Back	Back	Back
Mounting:	-	-	-	Surface	Surface
Weight:	5 oz (142 g)	5 oz (142 g)	5.6 oz (158.9 g)	5 oz (142 g)	5 oz (142 g)
Regulatory Listings:	RoHS	RoHS	NSF COMPONENT RoHS	NSF COMPONENT RoHS	RoHS
Warranty:	1 year	1 year	1 year	1 year	1 year

6812-02
Back Flange Back Connect Panel Thermometer

7112-05
Front Flange Back Connect Panel Thermometer

	7112-01	7112-02	7112-05	7612-06
Temperature Range:	-40° to 60°F (-40° to 15°C)	-40° to 120°F (-40 to 50°C)	40° to 240°F (10° to 115°C)	-40° to 60°F (-40° to 15°C)
Accuracy:	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)	±2°F (±1°C) at 10° and 40°F (-12° and 4.5°C) ±5°F (2.5°C) at 110° (-43°C)	±2°F (±1°C) from 140° to 210°F (60° to 99°C)	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C)
Dial Dimension:	2.5" (64 mm)	2.5" (64 mm)	2.5" (64 mm)	2.5" (64 mm)
Capillary Length	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)
Flange:	Front	Front	Front	Strap Hanger
Connection:	Back	Back	Back	Bottom
Mounting:	Flush	Flush	Flush	-
Weight:	7 oz (198 g)	7 oz (198 g)	7 oz (198 g)	5.6 oz (159 g)
Regulatory Listings:	NSF COMPONENT RoHS	RoHS	RoHS	RoHS
Warranty:	1 year	1 year	1 year	1 year

To ensure accuracy minimum insertion point 2" (51 mm)

1246-02
Bi-metal Stem
Test Thermometer

Adjustment Wrench

Antimicrobial

The antimicrobial additive does not protect users or others against food bacteria. Always wash, rinse and sanitize this product thoroughly before and after each use.

CT180-51
Pocket Test Thermometer

All 1" Pocket-tests are field adjustable and include a red, protective sheath with calibration wrench made with anti-microbial plastic*.

	1246 Series	CT Series	2236-02	2238-06	2238-14
Temperature Range:	1246-01: -40° to 180°F 1246-01C: -40° to 80°C 1246-02: 0° to 220°F 1246-02C: -20° to 100°C 1246-03: 50° to 550°F 1246-03C: 10° to 285°C	CT180-51: -40° to 180°F CT220-51: 0° to 220°F	-40° to 180°F (-40° to 80°C)	0° to 220°F (-10° to 100°C)	50° to 550°F (10° to 288°C)
Accuracy:	1246-01: ±2°F 1246-01C: ±1°C 1246-02: ±2°F 1246-02C: ±1°C 1246-03: ±5°F 1246-03C: ±3°C	±2°F	±2°F (±1°C)	±2°F (±1°C)	±5°F (±3°C)
Dial Diameter:	1" (25 mm)	1" (25 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)
Lens Material:	Magnifying Polycarbonate	Magnifying Polycarbonate	Tempered Glass	Tempered Glass	Tempered Glass
Stem Length:	5" (127 mm)	5" (127 mm)	5" (127 mm)	8" (203 mm)	8" (203 mm)
Weight:	0.5 oz (14 g)	11 oz (312 g)	1.5 oz (43 g)	1.2 oz (35.4 g)	1.5 oz (43 g)
Regulatory Listings:	NSF	-	-	NSF	NSF
Warranty:	1 year	1 year	1 year	1 year	1 year

2238-06
Stem-Test Thermometer
 • Vessel clip included

Developed for through-wall mounting, all units have a bi-metal coil movement and glass lens with a 0.25" (6.35 mm) diameter stainless steel stem. The stainless steel, back flange bezel has three, equally spaced mounting holes 0.150" (3.81 mm) diameter on a 2.9" (74 mm) diameter bolt circle.

	2225 Series	2245 Series	2255 Series
Temperature Range:	2225-02: 0° to 220°F 2225-03: -40° to 160°F 2225-20: 200° to 1000°F (100° to 500°C)	2245-02: 0° to 220°F 2245-03: -40 to 160°C	2255-02: 0° to 220°F 2255-03: -40 to 160°C
Accuracy:	2225-02: ±2°F 2225-03: ±3°F 2225-20: ±20°F (±10°C)	2245-02: ±2°F 2245-03: ±3°F	2255-02: ±2°F 2255-03: ±3°F
Dial Dimension:	2" (50 mm)	2" (50 mm)	2" (50 mm)
Outer Flange Diameter:	2225-02: 3.5" (89 mm) 2225-03: 3.5" (89 mm) 2225-20: 3.3" (84 mm)	3.5" (89 mm)	3.5" (89 mm)
Stem Length:	4" (102 mm)	6" (152 mm)	9" (229 mm)
Weight:	2.5 oz (71 g)	3 oz (85 g)	3.8 oz (108 g)
Warranty:	1 year	1 year	1 year

2225-20
Pizza Oven Flange Mount
Thermometer - Dual Scale

A digital pocket-test thermometer that is "**Accurate for Life**" and does **NOT** require any field adjustment. Eliminating field adjustment removes the risk of introducing inaccuracy into the instrument. Cooper-Atkins brings this industry leading advancement with the guarantee that our **Digital Pocket Tests** are always accurate. Look for the logo Ⓐ on Cooper-Atkins products and you'll know they are **Accurate for Life…GUARANTEED!!**

Cooper-Atkins offers a wide range of fast-response, Accurate for Life, Digital Pocket Tests with 0.1° resolution. Thermistor sensors are located in the probe tip for quick response time and accurate readings.

**DPP400W
Pen-Style Digital
Pocket Test Thermometer**
 • Min, Max & Hold temperature
 • IPX7 waterproof rated

**DPP800W
MAX Digital Pocket
Test Thermometer**
 • Large EZ-read
   LCD screen
 • IPX7 Waterproof rated
 • Dishwasher safe

**DFP450W
Digital Pocket Test
with Temperature Alarm**
 • Min/Max & Hold
   Temperature
 • IPX7 Waterproof rated
 • Dishwasher safe

**TTM41 & TTM41-10
CoolitRite™ Cooling Validator**
Validator with 15" stem (TTM41) or 10" stem (TTM41-10) tracks elapsed time while it monitors the temperature of the food being cooled.
 • Adjustable vessel clip
 • Water-resistant

IPX7 Waterproof

All the **Accurate for Life Pocket Test** instruments are IPX7 waterproof rated and durable for harsh environments.

An IPX7 level reading means the instrument can be submerged in 1 meter of water for 30 minutes without water damage.

Antimicrobial
The antimicrobial additive in the ABS plastic housing inhibits the growth of bacteria on the unit. It does not protect users or others against bacteria.

Digital Pocket Test Thermometers

	DFP450W	DPP400W	DPP800W	DPS300-01	DT300	TTM41	TTM41-10
Temperature Range:	-40° to 450°F (-40° to 232°C)	-40° to 392°F (-40° to 200°C)	-40° to 450°F (-40° to 232°C)	-40° to 302°F (-40° to 150°C)	-40° to 302°F (-40° to 150°C)	-4° to 302°F (-20° to 150°C)	-4° to 302°F (-20° to 150°C)
Accuracy:	±2°F (±1°C)	±2°F (±1°C)	±1°F (±0.5°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)
Resolution:	0.1°F	0.1°F	0.1°F	0.1°F	0.1°F	0.1°F	0.1°F
Display - LCD	.875" (22 mm)	.875" (22 mm)	1.5" (38 mm)	.50" (13 mm)	.875" (22 mm)	1.25" (32 mm)	1.25" (32 mm)
Stem Length:	4.75" (121 mm)	2.75" (70 mm)	4" (102 mm)	4.75" (121 mm)	4.625" (117 mm)	15" (381 mm)	10" (254 mm)
Power:	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44
Auto Shut-off:	Yes (After 10 min)	Yes (After 10 min)	Yes (After 10 min)	Yes (After 10 min)	No	-	-
Weight:	.7 oz (20 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	.5 oz (14 g)	2 oz (56 g) (with clip)	2 oz (56 g) (with clip)
Water Resistance Rating:	IPX7	IPX7	IPX7	-	-	Water Resistant	Water Resistant
Regulatory Listings:	CE NSF RoHS	CE NSF RoHS	CE NSF RoHS	CE RoHS	CE RoHS	CE NSF RoHS	CE NSF RoHS
Warranty:	Lifetime	Lifetime	Lifetime	1 year	1 year	Lifetime	Lifetime

DPS300-01
Digital Pocket Test with 180° Swivel Head
- On/Off Buttons
- °F/°C Switchable
- Memory Feature
- Reduced Tip Design
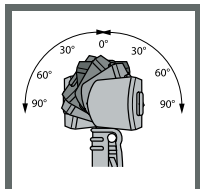
Adjustable 180° Swivel Head for Easy Viewing From Any Angle

DT300
Oval Style Digital Pocket Test
- On/Off Buttons
- °F/°C Switchable

ValCup™

9325
ValCup™
Thermometer Validation Cup
- Quickly validate thermometer accuracy
- Commercial dishwater safe
- BPA-free acrylic
- 6.25" x 4" (159 mm x 102 mm)
- Weight: 6 oz (170 g)

Make the perfect ice bath using the ValCup™

Watch the Video

Probe Wipes

9150
Box
- 200 individual foil wrapped wipes per pack
- 2" x 2" (51 mm x 51 mm)
- Weight: 8 oz (227 g)

9152
Tub
- 200 Count
- 3.125" x 4.75" (76 mm x 120 mm)
- Weight: 6 oz (170 g)

	412	462	470	480	481
Temperature Range:	Infrared -76° to 932°F (-60° to 500°C) Thermocouple Instrument -83° to 1999°F (-64° to 1400°C)	-40° to 536°F (-40° to 280°C)	-27° to 428°F (-33° to 220°C)	Infrared -27° to 428°F (-33° to 220°C) Thermocouple Probe -67° to 624°F (-55° to 330°C)	Infrared -40° to 536°F (-40° to 280°C) Thermocouple Probe -40° to 392°F (-40° to 200°C)
Infrared Accuracy:	±4°F (±2°C)	±2°F (1°C)	±3.6°F (±2°C)	±4°F (±2°C)	±2°F (±1°C)
Probe Accuracy:	Thermocouple Jack ±2°F (±1°C)	-	-	Thermocouple Probe ±2°F (±1C°)	RTD Probe ±1°F (0.5°C)
Resolution:	0.1° 1°F above 200°F	0.1° 1°F above 230°F	0.1° 1°F above 200°F	0.1° 1°F above 200°F	0.1°
Ambient Operating Range:	32° to 122°F (0° to 50°C)	32° to 120°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Laser:	Single Dot	Single Dot	-	-	Single Dot
Distance to Spot (D:S):	12:1	6:1	1:1	1:1	3:1
Emissivity:	0.95 - adjustable from 0.1 to 1.0	0.97 fixed	Preset at 0.95	0.95 - adjustable from 0.1 to 1.0	0.97 Fixed
Storage Temperature:	-4° to 149°F (-20° to 65°C)	-4° to 149°F (-20° to 65°C)	-4° to 149°F (-20° to 65°C)	-4° to 149°F (-20° to 65°C)	-4° to 122°F (-20° to 50°C)
Power:	(2) 1.5V AAA	(1) 9V battery Alkaline	(1) Lithium button cell 3V battery - #CR2032	(1) Lithium button cell 3V battery - #CR2032	(1) 9V battery
Dimensions:	6.9" x 2.8" x 1.5" (175 mm x 72 mm x 38 mm)	7.375" x 2.25" x 1.5" (184 mm x 56 mm x 38 mm)	2.67" x 1.44" x 0.75" (68 mm x 36 mm x 19 mm)	6.125" x 1.68" x 1.625" (155 mm x 41 mm x 22 mm)	6.625" x 1.375" x 2.5" (168 mm x 35 mm x 64 mm)
Battery Life:	180 Hours Typical 140 Hours Minimum	12 Hours	40 Hours Typical 30 Hours Minimum	40 Hours Typical 30 Hours Minimum	100 Hours Typical
Weight:	6 oz (170 g)	5 oz (142 g)	1 oz (28.4 g)	2.5 oz (73 g)	6 oz (170 g)
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	CE RoHS	CE NSF RoHS
Warranty:	1 year	1 year	1 year	1 year	1 year

412
Infrared with Laser Sighting & Thermocouple Jack
· LCD display with backlight
· FDA Class II, Single-point laser may be turned on or off
· High/Low alarms
· Measures min, max, average & differential temperatures
· Accepts all Type K Thermocouple probes
· Lock-mode for continuous monitoring up to 60 minutes
· Adjustable emissivity
· Soft carrying case included

(D:S) 12:1

462
Slim-Line Infrared Thermometer
Easy to use. Just aim at the object, press the button, and read the surface temperature.
· LCD display with backlight
· Single-point laser
· Auto Shut-off after 7 seconds

(D:S) 6:1

470
Mini Infrared Thermometer
The pocket-sized design is very compact, and includes lanyard to wear around your neck.
· Min/Max/Hold/Lock

(D:S) 1:1

480
Dual Temp Infrared & Probe
For surface and internal temperature readings.
· Auto Shut-off after 7 seconds/Probe after 4 mins

(D:S) 1:1

422
Gun-style Infrared
with Laser Sighting

**(D:S)
12:1**

	422	423	424	425
Temperature Range:	-76° to 932°F (-60° to 500°C)	-76° to 1157°F (-60° to 625°C)	-76° to 1600°F (-60° to 900°C)	-76° to 1832°F (-60° to 1000°C)
Accuracy:	±4°F (±2°C)	±4°F (±2°C)	±4°F (±2°C)	±4°F (±2°C)
Resolution:	0.1°	0.1°	0.1°	0.1°
Ambient Operating Range:	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Laser:	8-point	8-point	Dual Dot	Dual Dot
Distance to Spot (D:S):	12:1	16:1	35:1	50:1
Emissivity:	0.95 Fixed	Default 0.95 - adjustable from 0.10 to 1.00	Default 0.95 - adjustable from 0.10 to 1.00	Default 0.95 - adjustable from 0.10 to 1.00
Storage Temperature:	-4° to 149°F (-20° to 65°C) (without battery)	-4° to 149°F (-20° to 65°C) (without battery)	-4° to 149°F (-20° to 65°C) (without battery)	-4° to 149°F (-20° to 65°C) (without battery)
Power:	(2) 1.5V AAA (included)	(2) 1.5V AAA (included)	(2) 1.5V AAA (included)	(2) 1.5V AAA (included)
Dimensions:	1.625" x 5.5" x 7.25" (41 mm x 140 mm x 184 mm)	1.625" x 5.5" x 7.25" (41 mm x 140 mm x 184 mm)	7.75" x 1.875" x 8" (197 mm x 48 mm x 203 mm)	7.75" x 1.875" x 8" (197 mm x 48 mm x 203 mm)
Battery Life:	18 hrs typical/14 hrs continuous use with laser/ backlight on	18 hrs typical/14 hrs continuous use with laser/ backlight on	14 hrs typical/10 hrs continuous use with laser/ backlight on	14 hrs typical/10 hrs continuous use with laser/ backlight on
Weight:	8 oz (227 g)	9 oz (229 g)	1 lb (454 g) w/ stand	1 lb (454 g) w/ stand
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	CE RoHS
Warranty:	1 year	1 year	1 year	1 year

Emissivity
is a measure of the efficiency in which a surface emits thermal energy. It is defined as the fraction of energy being emitted relative to that emitted by a thermally black surface (a black body). A black body is a material that is a perfect emitter of heat energy and has an emissivity value of 1.

423
Gun-style Infrared with
Laser Sighting
Accepts Type K Thermocouple probes

**(D:S)
16:1**

424
Gun-style Infrared
with Laser Sighting
· Measures min, max, average
  & differential temperatures
· Programmable HI/LO alarms
· Built-in, high-intensity LED flashlight
· Magnetic stand
· ABS carrying case

**(D:S)
35:1**

D:S (Distance to Spot Ratio)
The further away from the object, the larger the surface area measured. Optical resolution is expressed as a ratio of the distance to the resolution spot divided by the diameter of the spot.
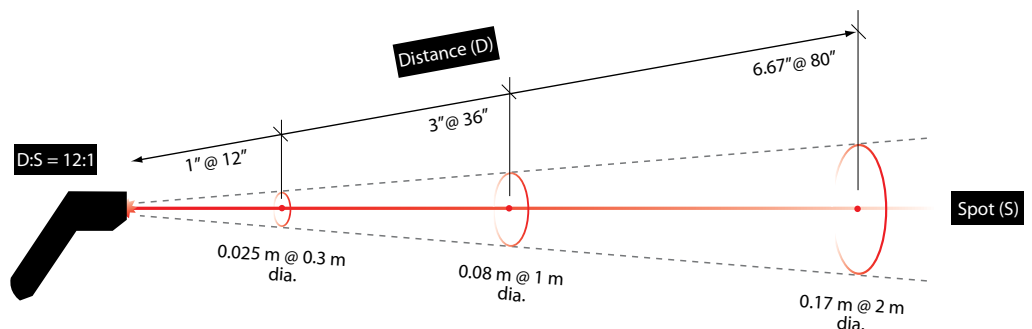
Distance (D)

6.67"@ 80"

3"@ 36"

D:S = 12:1

1" @ 12"

Spot (S)

0.025 m @ 0.3 m dia.

0.08 m @ 1 m dia.

0.17 m @ 2 m dia.

	25HP	330	335	535	2560
Temperature Range:	-20° to 80°F (-29° to 27°C)	-40° to 120°F (-40° to 50°C)	-40° to 80°F (-40° to 25°C)	-20° to 120°F (-30° to 50°C)	-22° to 122°F (-30° to 50°C)
Accuracy:	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±5°F (±2°C)	±1°F (±0.5°C)
Housing Material:	Stainless Steel	Food Grade Plastic	Stainless Steel	Plastic	Food Grade Plastic
Dimensions:	2.375" x 1.5" x 3" (60 mm x 38 mm x 76 mm)	0.625" x 0.25" x 4" (16 mm x 6 mm x 102 mm)	4.75" x 0.875" x 1.125" (120mm x 22 mm x 29 mm)	2" (50.8 mm)	3.56" x 1.25" x 3.5" (90 mm x 32 mm x 89 mm)
Lens Material:	Glass	Food Grade Plastic	Food Grade Crystal Clear Polycarbonate	Plastic	Food Grade Polycarbonate
Weight:	1.5 oz (43 g)	.25 oz (7 g)	1 oz (28 g)	.5 oz (14 g)	1.5 oz (43 g)
Regulatory Listings:	NSF	NSF COMPONENT	NSF	-	CE NSF RoHS
Warranty:	1 Year	1 Year	1 Year	1 Year	Lifetime

330
Vertical Glass Tube Thermometer
• Lightweight design
• Durable, plastic casing
• Non-toxic, spirit-filled glass tube

335
Horizontal Glass Tube Thermometer
• Magnifying lens
• Hangs, stands or permanently mounts

25HP
Refrigerator/Freezer Thermometer
• Includes dry storage range
• Hangs or stands

Accurate for Life • A™ • Guaranteed

2560
Digital Refrigerator/Freezer Thermometer
• Guaranteed Accurate for Life!
• Hangs, stands, or mounts with cable ties
• Large, easy to read display
• Anti-microbial additive
• Removable plastic frame

Hot-Holding Thermometers

	24HP	26HP	3210
Temperature Range:	100° to 600°F (50° to 300°C)	100° to 175°F (40° to 80°C)	100° to 600°F (50° to 300°C)
Accuracy:	±25°F (±12.5°C)	±3°F (±1.5°C)	±25°F (±12°C)
Housing Material:	Stainless Steel	Stainless Steel	Aluminum
Dial Diameter:	2" (51 mm)	2" (51 mm)	2.5" (64 mm)
Lens Material:	Glass	Glass	Glass
Weight:	1.5 oz (43 g)	1.5 oz (43 g)	3 oz (85 g)
Regulatory Listings:	NSF	NSF	NSF
Warranty:	1 Year	1 Year	1 Year

3210
Grill Surface Thermometer
• HACCP zoned dial
• Unique side grips

24HP
Oven Thermometer
• HACCP zoned dial
• Hangs or stands

26HP
Hot-holding Cabinet Thermometer
• HACCP Zoned dial
• Hangs or stands

	TRH122M	TRH158	T158	IO70
Temperature Range:	14° to 122°F (-10° to 50°C) 10% to 99% RH	32° to 122°F (0° to 50°C) 25% to 90% RH	Internal: 32° to 122°F (0° to 50°C) External: -58° to 158°F (-50° to 70°C)	Internal: 32° to 122°F (0° to 50°C) External: -58° to 158°F (-50° to 70°C)
Accuracy:	±2°F (±1°C)	±2°F (±1°C) +5% RH	±2°F (±1°C)	±2°F
Resolution:	0.1°	0.1°	0.1°	0.1°
Display - LCD	1.5" x 0 .5" (38 mm x 13 mm) (dual display)	2.875" x 2.125" (73 mm x 54 mm)	2.875" x 2.125" (73 mm x 54 mm)	1.625" x 1.375" (41 mm x 35 mm)
Power:	(1) 1.5V Battery AAA	(1) 1.5V Battery AAA	(1) 1.5V Battery AAA	(1) 1.5V Battery AAA
Weight:	3 oz (85 g)	4.5 oz (127 g)	5.5 oz (156 g)	3 oz (85 g)
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	-
Warranty:	1 Year	1 Year	1 Year	1 Year

TRH158
Digital Temperature/Humidity Wall Thermometer
• Built-in sensor
• °F/°C selectable

TRH122M
Mini Temperature/ Humidity Dual-Display Wall Thermometer
• Min/Max memory and switchable °F / °C

IO70
Digital Indoor/Outdoor Wall Thermometer
• Large LCD
• Built-in sensor
• 10' cable for remote sensor

T158
Digital Wall Thermometer with Remote Sensor
• Wall or desk mountable
• Remote sensor
• °F/°C selectable
• 10' cable

Wall Thermometers

Please refer to product specs on page 30

250
5" Wall/Storage Thermometer

255-14
6" Refrigerator/Freezer Thermometer

255-06
6" Wall/Storage Thermometer

Wall Thermometers

Wall Thermometers/Hygrometers allow easy monitoring of temperatures. Specialty HACCP color-zoned dial units were developed for use in critical food-related applications. These thermometers have large numbers and oversized dials for easy viewing.

212 Series   250/255 Series

|	212-150	212-158	212-159	250	255-06	255-14	268
Temperature Range:	-40° to 120°F (-40° to 50°C) 0 to 100% RH	10° to 80°F 0 to 100% RH	-10° to 80°F 0 to 100% RH	-40° to 120°F (-40° to 50°C)	-60° to 120°F (-50° to 50°C)	-10° to 80°F	-40° to 120°F (-50° to 50°C)
Accuracy:	±3°F (±1.5°C)	±3°F	±3°F	±2°F (1°C)	±2°F (1°C)	±2°F (1°C)	±2°F (1°C)
Resolution:	2°F increments	1°F increments	2°F increments	±2°F (1°C)	2°F increments	2°F increments	2°F increments
Dial Diameter:	11.5" (291 mm)	11.5" (291 mm)	11.5" (291 mm)	4.5" (114 mm)	6" (152 mm)	6" (152 mm)	-
Weight:	1 lb (454 g)	1 lb (454 g)	1 lb (454 g)	4 oz (113 g)	3 oz (85 g)	3 oz (85 g)	2 oz (57 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year

212-150
12" Wall Thermometer/Hygrometer

268
Wall Thermometer
• Non-toxic, spirit-filled glass tube
• Suction cups included for window mounting
• 1-year warranty

212-158
12" Prep & Dry Storage Thermometer/Hygrometer (°F)
 • HACCP colored-zone dial
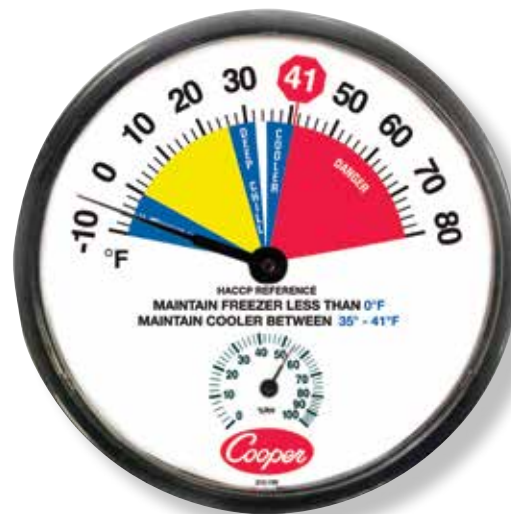
212-159
12" Freezer & Cooler Thermometer/Hygrometer (°F)
 • HACCP colored-zone dial

	FT24	TC6	TFS4	TM60	TS100	TW3
Unit Range:	23:59:59 Hours	23:59:59 Hours	99 Hours, 59 Minutes	0 to 60 Minutes	99 Minutes, 59 seconds	99 Minutes, 59 seconds
Resolution:	1 second	1 second	Hours/Minutes Minutes/Seconds	1 minute	1 second	1 second
Power Source:	(4) 1.5v C	1.5 v AAA	(4) 1.5v C AC Adaptor (optional)	Wind up	1.5v LR44	1.5 v AAA
Memory / Recall:	Yes	Yes	Yes	No	Yes	Yes
Modes:	-	Counts up/down	Counts up/down	-	-	-
Alarm Level (Decibel):	90 decibels	85 decibels	90 decibels	70 decibels	70 decibels	70 decibels
Housing:	ABS Plastic	White plastic	ABS plastic	Stainless steel	ABS plastic	ABS plastic
LCD Dimensions:	0.875" x 2.25" (22 mm x 54 mm)	0.625" x 1.625" (16 mm x 41 mm)	3" x 3" (76 mm x 76 mm)	-	0.375" x 0.875" (10 mm x 22 mm)	1.5" x 2.5" (76 mm x 64 mm)
Weight:	1 lb 3 oz (539 g)	2 oz (57 g)	1 lb 6oz (523 g)	4.3 oz (122 g)	1 oz (28 g)	3 oz (85 g)
Regulatory Listings:	CE	CE RoHS	CE RoHS	-	CE RoHS	CE RoHS
Warranty:	2 Years	1 Year	1 Year	1 Year	1 Year	1 Year

TC6
Digital Timer/Clock/Stopwatch
• Built-in memory
• Splash proof case
• Wire hang, easel stand, clip-on or magnet-mount
• Power: 1.5V, AAA battery included

FT24
Large Single-Station Digital Timer
• Red light flashes when alarm sounds
• Built-in memory for repeat cycle timing
• Power: (4) 1.5V, C size batteries included

TFS4
Large Multi-Station Digital Timer
• Switchable: Hours/Minutes or Minutes/Seconds
• Built-in Memory
• Power: (4) 1.5V, C size batteries included
• Built-in AC adapter jack

#9374
AC adapter for TFS4 (optional)

TS100
Digital Timer/Stopwatch
• 99 minute, 59 second counter/timer
• Recall feature
• 18" nylon neck cord
• Power: 1.5V, G13A micro-cell battery included

TM60
Long-Ring 60 Minute Timer
• Non-skid feet for easy, one-handed operation
• Spring-wound mechanism
• Sturdy, Stainless Steel case

TW3
Large Digit Multi-Function Timer
• Recall feature
• Water resistant
• Large LCD: 1.5" x 2.5" (38 mm x 63 mm)
• Power: 1.5V, AAA battery included
• Wire hang, easel stand, belt-clip or magnet-mount

67-1386 • 5M • 0415

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