

Industrial catalog

HVAC/R • Facilities • OEM



COOPER-ATKINS

Industrial Solutions for Today and Tomorrow

Every day, businesses like yours rely on Cooper-Atkins. Our products and expertise assure better temperature monitoring and more energy-efficient operations to help meet our customers’ needs. As part of the Copeland portfolio of brands, Cooper-Atkins is engineered for sustainability. Below are just some of the niche markets we serve that are expanding under the industrial business umbrella.

HEATING AND AIR CONDITIONING



Technicians and contractors trust our products in critical IAQ applications when measuring temperatures on pipe surfaces, air flow in rooms and duct work, or analyzing system pressures in heating/air-conditioning. The reliability and scalability of products increases field efficiency.

REFRIGERATION



Quality tools for the refrigeration technician range from simple bimetal and vapor tension thermometers to state-of-the-art wireless monitoring systems. Used for measuring temperatures on pipe surfaces or analyzing system pressures in refrigeration equipment, the durability, reliability, and expandability of our products have been time tested.

LABORATORY



Monitor the temperature and humidity level in clean rooms with speed and accuracy. Scientists and technicians rely on Cooper-Atkins products that are traceable to the standards of NIST and are durable, waterproof and meet recognized industry certifications.

FACILITIES MAINTENANCE



Quality tools for the Maintenance Engineer range from simple bimetal thermometers to wireless temperature monitoring enterprise systems. We are committed to providing the right measurement/testing instrument, tool or test equipment for the job.

WAREHOUSING



Maintaining specific temperature ranges is important in all areas of a controlled environment. Monitoring of temperature and humidity in refrigerators, walk-ins, freezers, distribution and shipping areas is an important part of cold chain management. Accurate temperature profiling over prolonged periods ensures accurate storage temperatures for your products.

MANUFACTURING



Manufacturers across all industries can use Cooper-Atkins products as temperature monitoring solutions to ensure temperatures remain consistent and accurate during production and testing processes. From Aerospace, Locomotive, and Casting industries to Oil and Gas, Textiles, Food Manufacturing and more – our thermocouples and probes provide reliable and accurate internal, surface, and ambient temperature readings.

FOOD PROCESSING



During processing, temperature monitoring and control of pathogens are both critical to ensuring a foodsafe environment. Automating both temperatures and humidity monitoring will increase efficiency and allow detailed reporting and compliance with current HARPC/HACCP plans.

AGRICULTURE



With the organic and medicinal industries on the upsurge, there is a need to control the temperature & humidity of greenhouses and holding silos. Our line of specialty products is designed for the agriculture and horticulture markets. Versatile and scalable, they also conform to current government compliances and regulations.

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SH66A-E 3-Zone Temperature Instrument

For applications when multiple temperature measurements are needed, use the SH66A-E. 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. 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*



- 4005i**
Cordless Pipe Clamp Temperature Instrument
Includes 2.5" (64 mm) Retractable General Purpose Puncture Probe and 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 old
 - Nylon, belt-pouch (included)



TM99A Series Thermistor Temperature Instrument

For applications where only one temperature is needed. The TM99A features Min/Max memory, Hold, Auto-shut off and an LCD backlight for dark environments.

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

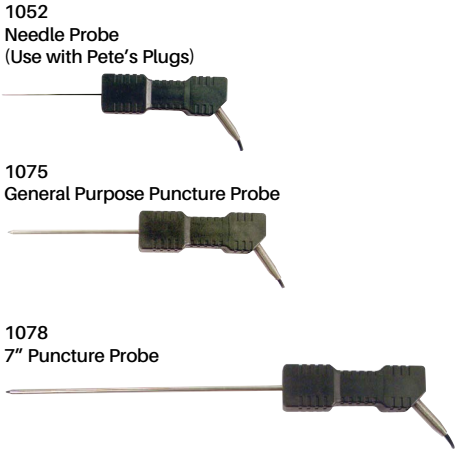
- TM99A-032:**
- 1075 General Purpose Puncture Probe
 - 9339 Soft, Carrying/Storage Pouch
 - Certificate of calibration traceable to NIST standards*



	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°
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	0° to 130°F (-18° to 54°C) Up to 90% RH non-condensing	0° to 120°F (-18° to 49°C) Up to 90% RH non-condensing
Case Material:	Polyethylene	Polyethylene	ABS Plastic	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	
Limited Warranty:	5 years instrument/1 year probe	5 years instrument/1 year probe	5 years instrument/1 year probe	5 years

Needle Probes

	1052	1075	1078
Description:	Needle Probe	General Purpose Puncture Probe	7" Puncture 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)
Max Tip Temperature:	300°F (149°C)	300°F (149°C)	300°F (149°C)
Max Cord Temperature:	200°F (93°C)	200°F (93°C)	200°F (93°C)
Response Time (liquid):	4 seconds	6 seconds	6 seconds
Shaft Length:	2.9" (74 mm)	3.75" (95 mm)	7" (178 mm)
Shaft Diameter:	0.041" (1 mm)	0.146" (3.6 mm)	0.140" (4 mm)
Cord Length:	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)
Limited Warranty:.	1 year	1 year	1 year





Surface Probes

	3010	4005	4011	2010	5028
Description:	Plastic Shaft Probe	Pipe Clamp Probe	Pipe Strap 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 200°F (-40° to 93°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)	200°F (93°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)
Response Time:	15 seconds	12 seconds	-	20 seconds	30 seconds
Shaft Length:	3" (76 mm)	-	-	0.5" (13 mm)	4.9" (125 mm)
Shaft Diameter:	0.156" (4 mm)	-	-	0.160" (4 mm)	0.25" (6 mm)
Cord Length:	6' (1.8 m) Polyurethane (uncoiled)	10' (3 m) TPE (uncoiled)	12' (3.7 m) Polyurethane (uncoiled)	12' (3.6 m) Polyurethane (extended)	6' (1.8 m) PVC (uncoiled)
Limited Warranty:	1 year	1 year	1 year	1 year	1 year



Air Probes






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. Includes 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 Plastic	ABS Plastic
Hold:	No	No
Backlight:	No	No
Waterproof:	No	No
Power:	(3) 1.5V AAA	(3) 1.5V AAA
Battery Life:	4500 hours	4500 hours
Auto Off:	10 min.	10 min.
Wall-mount Bracket:	Yes	Yes
Weight:	6 oz (170 g)	6 oz (170 g)
Regulatory Listings:	CE  RoHS	CE  RoHS
Limited Warranty:	5 years instrument/ 1 year probe	5 years instrument/ 1 year probe



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. Integrated 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.

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) Total System	±0.5°F (±0.3°C)	±0.9°F (±0.5°C) Total System
Resolution:	0.1°	0.1°	0.1°	0.1°
Housing:	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
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-mount 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  RoHS	CE  RoHS	CE  RoHS	CE   RoHS
Limited Warranty:	5 year	5 years instrument/ 1 year probe	5 years instrument/ 1 year probe	5 years instrument/ 1 year probe

35100-K AquaTuff



35132 AquaTuff Wrap&Stow with DuraNeedle Probe



35135 AquaTuff Wrap&Stow with Angled Surface Probe



9369 AquaTuff Wall Bracket (Optional)



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 1 kg pressure are typically within +1.5°C and -3.5°C without thermostat cycling.

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 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) Total System	±0.5°F (±0.3°C)	±0.9°F (±0.5°C) Total System
Resolution:	0.1° [2]	0.1° [2]	0.1° [2]	0.1° [2]
Housing:	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
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-mount 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   RoHS	CE   RoHS	CE  RoHS	CE   RoHS
Limited Warranty:	5 years	5 years instrument/ 1 year probe	5 years instrument/ 1 year probe	5 years instrument/ 1 year probe

35200-K AquaTuff



35240 AquaTuff Wrap&Stow with MicroNeedle Probe



9369 AquaTuff Wall Bracket (Optional)



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



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.

Cooper-Atkins builds our probes in our Mexico facility, so you can rely on us to custom design and manufacture a probe for your specific needs.

Needle Probes

	50101-K	50143-K	50207-K
Description:	Frozen Product Needle Probe	Heavy-Duty Needle Probe	MicroNeedle Chisel Tip Probe (Direct Connect)*
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	400°F (205°C)	500°F (260°C)	500°F (260°C)
Max Cable Temperature:	400°F (205°C)	176°F (80°C)	-
Response Time (liquid):	4 seconds	5 seconds	1 second
Shaft Length:	3" (76 mm)	4" (102 mm)	3.75" (95 mm)
Cable Length Max Extended:	30" (762 mm) w/ Flexible Armored Cable	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)
Weight:	1 lb (454 g)	5 oz (142 g)	0.5 oz (14 g)
Limited Warranty:	1 year	1 year	1 year

* Not recommended for use in highly acidic or alkaline products such as citrus and tomato products.



Needle Probes

	50209-K	50210-K	50335-K	50336-K	50337-K	50360-K	50361-K
Description:	MicroNeedle Probe	MicroNeedle Probe (Direct Connect)*	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)	-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)	400°F (205°C)
Max Cable Temperature:	176°F (80°C)	-	176°F (80°C)	176°F (80°C)	-	600°F (316°C)	400°F (205°C)
Max Oven Application Temperature:	-	-	-	-	-	400°F (205°C)	-
Response Time (liquid):	1 second	1 second	4 seconds	2 seconds	1 second	2 seconds	4 seconds
Shaft Length:	3.5" (89 mm)	3.75" (95 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	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)	2 oz (57 g)	2 oz (57 g)	0.5 oz (14 g)	1 oz (28 g)	6 oz (170 g)
Limited Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year

* Not recommended for use in highly acidic or alkaline products such as citrus and tomato products.

Temperature Probes

	Pipe Probes	Fry Vat Probes	
	4005MK	54011-K	50208-K
Description:	Pipe Clamp Surface Probe	Pipe Strap Surface Probe	Fry Vat Insertion Probe
Temperature Range:	-20° to 300°F (-29° to 149°C)	-25° to 300°F (-32° to 149°C)	-40° to 400°F (-40° to 205°C)
Max Tip Temperature:	300°F (149°C)	300°F (149°C)	400°F (205°C)
Max Cable Temperature:	220°F (104°C)	220°F (104°C)	400°F (205°C)
Response Time:	2 seconds on pipe	Varies on pipe	8 seconds (liquid)
Shaft Length:	-	-	7.3" (185 mm)
Cable Length Max Extended:	10' (3 m) w/ Polyurethane Jacket	10' (3 m) w/ Polyurethane Jacket	30" (762 mm) w/ Flexible Armored Cable
Weight:	5 oz (142 g)	2 oz (57 g)	3 oz (85 g)
Limited Warranty:	1 year	1 year	1 year



Air Probes

	50306-K	50332-K
Description:	Oven/ Freezer Probe	Hand-Held Air Probe
Temperature Range:	-100° to 600°F (-73° to 316°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	600°F (316°C)	500°F (260°C)
Max Cable Temperature:	600°F (316°C)	176°F (80°C)
Response Time :	1 second (liquid) 10 sec. 5 m/second (air)	10 seconds (liquid) 5 m/second (air)
Shaft Length:	2.125" (54 mm)	4" (102 mm)
Cable Length Max Extended:	43" (1.1 m) w/ Stainless Steel Overbraid	48" (1.2 m) w/ Polyurethane Jacket
Weight:	1 oz (28 g)	2 oz (57 g)
Limited Warranty:	1 year	1 year

50306-K
Air Probe for Oven
or Cooler/Freezer
with Clip



50318-K
Ceramic Tip
Straight Stem



50319-K
Ceramic Tip
Right Angled



Surface Probes

	50001-K	50008-K	50012-K	50014-K	50318-K	50319-K
Description:	Right Angle Bell Surface Probe	Silkscreen Probe	120° Angled Shaft Surface Bell Probe	Weighted Griddle Surface Probe	Ceramic Tip Surface Probe	90° Ceramic Tip Surface Probe
Temperature Range:	-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 1202°F (-40° to 650°C)	-40° to 1202°F (-40° to 650°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	500°F (260°C)	500°F (260°C)	1202°F (650°C)	1202°F (650°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	176°F (80°C)	400°F (205°C)	176°F (80°C)	176°F (80°C)
Response Time:	7 seconds (oiled surface)	1 second (liquid)	4 seconds (oiled surface)	2 seconds (oiled surface)	1 second (oiled surface)	1 second (oiled surface)
Shaft Length:	9" (229 mm)	-	4.5" (114 mm)	-	4" (102 mm)	5" (127 mm)
Cable Length Max Extended:	30" (762 mm) w/ Flexible Armored Cable	15" (381 mm) w/ Silicone Jacket	48" (1.2 m) w/ Polyurethane Jacket	30" (762 mm) w/ Flexible Armored Cable	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket
Weight:	6 oz (170 g)	3 oz (85 g)	5 oz (142 g)	2 lbs (907 g)	5 oz (142 g)	6 oz (170 g)
Limited Warranty:	1 year	1 year	1 year	1 year	1 year	1 year



Miscellaneous Probes

	39138-K	50701-K	52048-K
Description:	Bare-Tip Probe	Combo Probe	Product Simulator
Temperature Range:	-328° to 400°F (-200° to 205°C)	-100° to 500°F (-73° to 260°C)	-40° to 180°F (-40° to 82°C)
Max Tip Temperature:	400°F (205°C)	500°F (260°C)	180°F (82°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	-
Response Time :	1 sec. (liquid) & 7 sec. 5 m/sec. (air)	2 seconds (liquid)	Stabilization of Simulator up to 2 hours
Shaft Length:	-	35" (889 mm)	-
Cable Length Max Extended:	36" (914 mm) w/ FEP Jacket	36" (914 mm) w/ Fluoroelastomer Jacket	6" (152 mm) Flexible Cable w/ FEP Jacket
Weight:	1 oz (28 g)	15 oz (425 g)	2.5 oz (71 g)
Limited Warranty:	1 year	1 year	1 year

52048-K
Product
Simulator
Probe



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

	SP160-01	PM120
Temperature Range:	-58° to 158°F (-50° to 70°C)	-40° to 122°F (-40° to 50°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)	±1.8°F (±1°C) from -4° to 122°F (-20° to 50°C) ±3.6°F (±2°C) below -4°F (20°C)
Resolution:	0.1°	0.1°
Ambient Operating Range:	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
LCD:	1.4" x 0.5" (36 mm x 13 mm)	1.875" x 0.625" (48 mm x 16 mm)
Lead Length:	48" (1.2 m)	39" (1 m)
Case Material:	ABS Plastic	Polycarbonate
Case Dimensions:	4.5" x 1.125" x .625" (114 mm x 29 mm x 16 mm)	2.7" x 1.4" x 1.1" (69 mm x 36 mm x 28 mm)
Power:	Solar w/ battery back-up (1) 1.5V AAA	(1) 1.5V AA
Mounting:	Hangs	Optional Mounting Flange (Model 9302)
Weight:	3 oz (85 g)	2 oz (57 g)
Regulatory Listings:	CE  RoHS	CE  RoHS
Limited Warranty:	1 year	1 year

SP Series Solar Powered Instruments

Meters operate 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 backlight unit on.

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



- 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.



	DM120	DM450	DTT361-01
Temperature Range:	-40° to 120°F (-40° to 48°C)	-40° to 450°F (-40° to 230°C)	-25° to 392°F (31° to 200°C)
Accuracy:	±2°F (±1°C)	±2°F (±1°C) from -40° to 300°F ±2% of reading from 301° to 450°F	±2°F (±1°C) from -4° to 302°F (-20°C to 150°C) ±3°F (±1.5°C) outside range
Resolution:	0.1°	0.1°	0.1°
Ambient Operating Range:	15° to 150°F up to 90% non-condensing	0° to 150°F up to 90% non-condensing	32° to 122°F (0° to 50°C) / 20 to 90% RH
Response Time:	30 second updates	30 seconds 10 second updates	-
LCD:	1.3" x 0.5" (33 mm x 13 mm)	1.3" x 0.5" (33 mm x 13 mm)	2.25" x 1.5" (57 mm x 38 mm)
Lead Length:	39" (1 m)	39" (1 m)	44" (1.1 m)
Case Material:	Stainless Steel	Stainless Steel	ABS Plastic
Case Dimensions:	3.0" x 1.375" (76 mm x 27 mm)	3.0" x 1.375" (76 mm x 27 mm)	3" x 1.30" X 4.12" (76 mm x 33 mm x 105 mm (without probe))
Power:	(1) 1.5V #LR754	(1) 1.5V #LR754	(3) AAA
Mounting:	Front Flange	Front Flange	Wire hanger with magnet
Weight:	2.5 oz (71 g)	3 oz (85 g)	7 oz (198 g (including probe))
Regulatory Listings:	CE   RoHS	CE  RoHS	CE   RoHS
Limited Warranty:	1 year	1 year	1 year

DM120/DM450 Series

Available with 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





- DTT361-01**
Cooking Thermo/Timer
- Wall-mount bracket with magnet
 - Temperature/Time/Alarm
 - IPX 4 water resistant

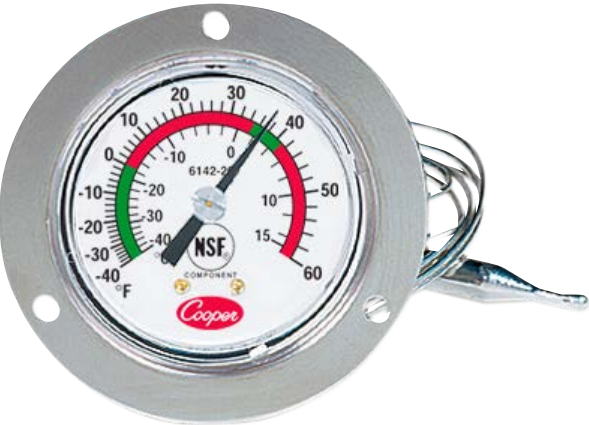




Used in many HVAC/R applications, these units are the perfect choice for use in walk-in refrigerators, tanks, refrigerated display cases, holding and specialty cabinets, dairy cases, freezers, floral displays and much more. They are able to obtain interior temperature readings remotely from outside of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

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

	6142-20	6142-58
Temperature Range:	-40° to 60°F (-40° to 15°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° to 40°F (-12° to 4.5°C)
Dial Dimension:	2" (51 mm)	2" (51 mm)
Capillary Length:	48" (1.2 m)	20" (6.1 m)
Flange:	Front	Front
Connection:	Back	Back
Mounting:	Flush	Flush
Weight:	5 oz (142 g)	7 oz (198 g)
Regulatory Listings:	 RoHS	 RoHS
Limited Warranty:	1 year	1 year

6142-20
Front Flange Back Connect
Panel Thermometer




	6812-01	7112-01
Temperature Range:	-40° to 60°F (-40° to 15°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° to 40°F (-12° to 4.5°C)
Dial Dimension:	2" (51 mm)	2.5" (64 mm)
Capillary Length:	48" (1.2 m)	48" (1.2 m)
Flange:	Back	Front
Connection:	Back	Back
Mounting:	Surface	Flush
Weight:	5 oz (142 g)	7 oz (198 g)
Regulatory Listings:	 RoHS	 RoHS
Limited Warranty:	1 year	1 year

7112-01
Front Flange Back Connect
Panel Thermometer

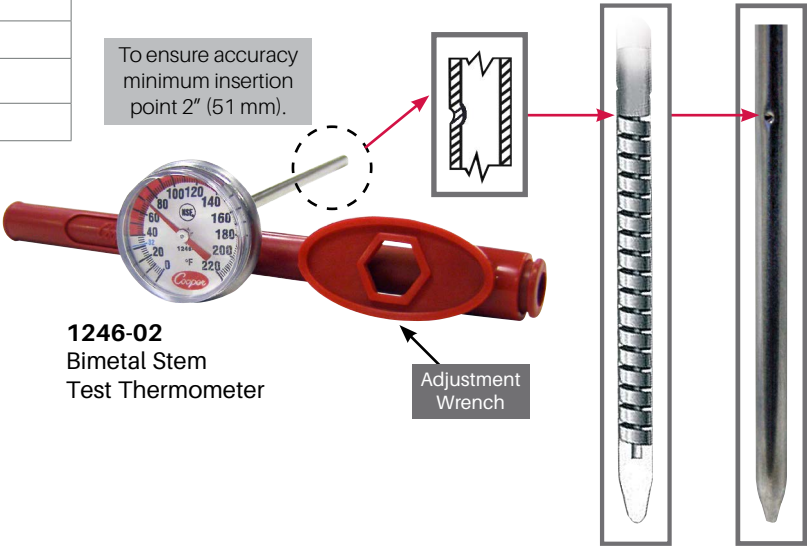


All 1" pocket test thermometers are field adjustable and include a red, protective sheath with calibration wrench made with antimicrobial plastic.

	1246 Series	CT Series
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	CT220-51: 0° to 220°F
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
Dial Diameter:	1" (25 mm)	1" (25 mm)
Lens Material:	Magnifying Polycarbonate	Magnifying Polycarbonate
Stem Length:	5" (127 mm)	5" (127 mm)
Weight:	0.5 oz (14 g)	11 oz (312 g)
Regulatory Listings:		-
Limited Warranty:	1 year	1 year

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.



Developed for through-wall mounting, all units have a bimetal 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
Temperature Range:	2225-20: 200° to 1000°F (100° to 500°C)
Accuracy:	2225-20: ±20°F (±10°C)
Dial Dimension:	2" (50 mm)
Outer Flange Diameter:	2225-20: 3.5" (89 mm)
Stem Length:	4" (102 mm)
Weight:	2.5 oz (71 g)
Limited Warranty:	1 year

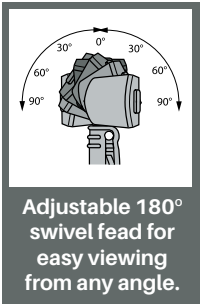
2225-20
Pizza Oven Flange
Mount Thermometer
- Dual Scale



	DFP450W	DPP400W	DPP800W	DPS300-01	DT300
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)
Accuracy:	±2°F (±1°C)	±2°F (±1°C)	±1°F (±0.5°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
LCD:	.875" (22 mm)	.875" (22 mm)	1.5" (38 mm)	.50" (13 mm)	.875" (22 mm)
Stem Length:	4.75" (121 mm)	2.75" (70 mm)	4" (102 mm)	4.75" (121 mm)	4.625" (117 mm)
Power:	(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)
Water Resistance Rating:	IPX7	IPX7	IPX7	-	-
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	CE RoHS	CE RoHS
Limited Warranty:	1 year	1 year	1 year	1 year	1 year

DPS300-01
Digital Pocket Test with 180° Swivel Head

- On/Off buttons
- °F/°C switchable
- Memory feature
- Reduced tip design



DT300
Oval Style Digital Pocket Test

- On/Off buttons
- °F/°C switchable



ValCup

9325
ValCup
Thermometer Validation Cup

Quickly validate thermometer accuracy.

- Commercial dishwasher safe
- BPA-free acrylic
- 6.25" x 4" (159 mm x 102 mm)
- Weight: 6 oz (170 g)



Probe Wipes

9150 Box

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



	422
Temperature Range:	-76° to 932°F (-60° to 500°C)
Accuracy:	±4°F (±2°C)
Resolution:	0.1°
Ambient Operating Range:	32° to 122°F (0° to 50°C)
Laser:	8-point
Distance to Spot (D:S):	12:1
Emissivity:	0.95 Fixed
Storage Temperature:	-4° to 149°F (-20° to 65°C) (without battery)
Power:	(2) 1.5V AAA (included)
Dimensions:	1.625" x 5.5" x 7.25" (41 mm x 140 mm x 184 mm)
Battery Life:	18 hrs typical/14 hrs continuous use with laser/backlight on
Weight:	8 oz (227 g)
Regulatory Listings:	CE RoHS
Limited Warranty:	1 year

422
Gun-style Infrared
with Laser Sighting



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.

	412
Temperature Range:	Infrared : -76° to 932°F (-60° to 500°C) Thermocouple Instrument : -83° to 1999°F (-64° to 1400°C)
Infrared Accuracy:	±4°F (±2°C)
Probe Accuracy:	Thermocouple Jack ±2°F (±1°C)
Resolution:	0.1° 1°F above 200°F
Ambient Operating Range:	32° to 122°F (0° to 50°C)
Laser:	Single Dot
Distance to Spot (D:S):	12:1
Emissivity:	0.95 - adjustable from 0.1 to 1.0
Storage Temperature:	-4° to 149°F (-20° to 65°C)
Power:	(2) 1.5V AAA
Dimensions:	6.9" x 2.8" x 1.5" (175 mm x 72 mm x 38 mm)
Battery Life:	180 hours typical 140 hours minimum
Weight:	6 oz (170 g)
Regulatory Listings:	CE RoHS
Limited Warranty:	1 year

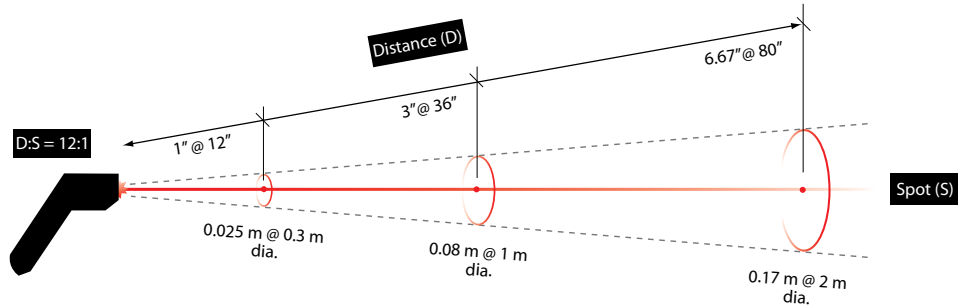
412
Infrared with Laser Sighting &
Thermocouple Jack







- 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 (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.



	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" (120 mm 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:		 COMPONENT		-	  
Limited Warranty:	1 year	1 year	1 year	1 year	1 year

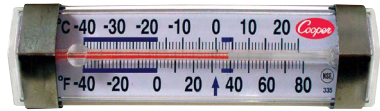
330
Vertical Glass Tube Thermometer

- Lightweight design
- Durable, plastic casing



335
Horizontal Glass Tube Thermometer

- Magnifying lens
- Hangs, stands or permanently mounts



25HP
Refrigerator/Freezer Thermometer

- Includes dry storage range
- Hangs or stands



2560
Digital Refrigerator/Freezer Thermometer

- Guaranteed Accurate for Life*
- Hangs, stands, or mounts with cable ties
- Large, easy to read display
- Antimicrobial additive
- Removable plastic frame



* **Accurate for Life** digital thermometers are guaranteed to maintain accuracy specification as set by Cooper-Atkins for a period of 10 years from the date of purchase.

Cooper-Atkins' standard one-year limited warranty, available at <https://www.copeland.com/en-us/terms>, shall apply in addition to this guarantee.

Care & Cleaning Guide

Properly cleaning your Cooper-Atkins instrument ensures quality performance and extends the life of your product.

General Instrument Care Guidelines

Do not clean with abrasives or solvents, use only mild detergents. Avoid contact with corrosive materials such as alcohol or other caustic cleaning agents. Wipe with a soft damp cloth to avoid scratching. If the unit is not waterproof, do not submerge or use excessive liquids when cleaning. Refer to our website for product specifications and waterproof ratings. Avoid exposing the instrument to severe shock. Be sure to utilize the supplied carrying case, storage pouch or wall-mount bracket. This provides a safe storage area and prevents build up of dust. After the instrument is cleaned and sanitized, dry and store. Do not use or store in excessively hot or cold areas.

Infrared Thermometers

Do not allow water or soap to get inside the instrument or on the lens. Avoid splashes and spills and do not submerge. The sensor lens is the most delicate part of the instrument and should be kept clean. Care should be taken when cleaning the lens. To remove particles from the lens, either wipe with a soft damp cloth, cotton swab with medical alcohol (on lens only), or use low pressure, compressed air. Do not use solvents to clean the lens as this may cause damage. Allow the lens to fully dry before using.



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.

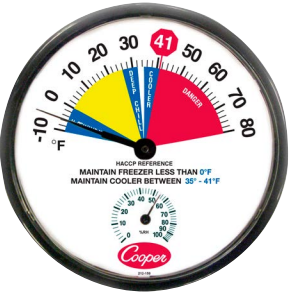
212 Series

	212-150	212-159
Temperature Range:	-40° to 120°F (-40° to 50°C) 0 to 100% RH	-10° to 80°F 0 to 100% RH
Accuracy:	±3°F (±1.5°C)	±3°F
Resolution:	2°F increments	2°F increments
Dial Diameter:	11.5" (291 mm)	11.5" (291 mm)
Weight:	1 lb (454 g)	1 lb (454 g)
Limited Warranty:	1 year	1 year





212-159
12" Freezer & Cooler Thermometer/ Hygrometer (°F)

- HACCP colored-zone dial



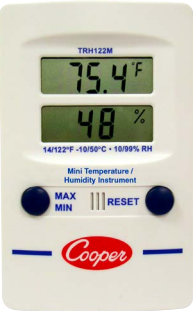
212-150
12" Wall Thermometer/ Hygrometer

DIGITAL WALL

	TRH122M
Temperature Range:	14° to 122°F (-10° to 50°C) 10% to 99% RH
Accuracy:	±2°F (±1°C)
Resolution:	0.1°
Display - LCD	1.5" x 0.5" (38 mm x 13 mm) (dual display)
Power:	(1) 1.5V Battery AAA
Weight:	3 oz (85 g)
Regulatory Listings:	  RoHS
Limited Warranty:	1 year

TRH122M
Mini Temperature/Humidity Dual-Display Wall Thermometer

- Min/ Max memory
- Switchable °F / °C



Thermocouple/ Thermistor Insertion Probes & Digital/ Bimetal Thermometers

To avoid cross-contamination, always clean thermometer stems thoroughly before and after each use. Do not allow the probe tip to remain in sanitizing solution for an extended period of time. Remove stubborn grease from the stem with a scouring pad or fine steel wool. Cooper-Atkins probe wipes are an ideal way of cleaning and sanitizing probe shafts between temperature checks. Avoid exposing the probe / thermometer to extreme temperatures.

Battery Replacement

If there is no display when the thermometer is turned on, check the condition of the batteries. Also check that the battery terminals are clean and batteries are properly installed. If batteries show signs of corrosion, remove immediately and replace. Refer to the product Operating Instructions or User Guide and Instrument Warranty booklet for battery installation and replacement guidelines. Always wash, rinse and sanitize these products.



Antimicrobial Additive

The antimicrobial additive used in specified instrument housings, thermometer sheaths and timers, inhibits the growth of bacteria on the unit. However, it does not protect users or others against food bacteria.

For further information or questions on caring for your Cooper-Atkins products contact customer service at: coldchain.technicalservices@copeland.com



About Copeland

Copeland is a global leader in sustainable heating, cooling, refrigeration and industrial solutions. We help commercial, industrial, refrigeration and residential customers reduce their carbon emissions and improve energy efficiency. We address issues like climate change, growing populations, electricity demands and complex global supply chains with innovations that advance the energy transition, accelerate the adoption of climate friendly low GWP (Global Warming Potential) and natural refrigerants, and safeguard the world's most critical goods through an efficient and sustainable cold chain. We have over 18,000 employees, with feet on the ground in 50 countries - a global presence that makes it possible to serve customers wherever they are in the world and meet challenges with scale and speed. Our industry-leading brands and diversified portfolio deliver innovation and technology proven in over 200 million installations worldwide. Together, we create sustainable solutions that improve lives and protect the planet today and for future generations.

About Cooper-Atkins

Cooper-Atkins has been a trusted brand in the foodservice and food processing industries since 1885. The Cooper-Atkins portfolio has evolved to offer a comprehensive range of temperature management products and monitoring needs to serve many different applications, from single-point solutions to more advanced technologies. Cooper-Atkins is a Copeland brand, a global leader in sustainable heating, cooling, and refrigeration solutions.

For additional information please contact your Cooper-Atkins representative.

Copeland Cold Chain LP
67-1870 | V1024

To learn more, visit copeland.com/cooper-atkins

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