



HVAC/R • OEM • INDUSTRIAL



























Cooper-Atkins Corporation

The inventor of the first bimetal oven thermometer, David G. Cooper, founded The Cooper Thermometer Company in 1885. Since that time, Cooper-Atkins has built a solid reputation as a manufacturer and provider of quality temperature, time and humidity instruments.

During the 1960's, the Cooper Thermometer Company expanded its brand with the development of three cooking lines. The acquisition of the Croydon Thermometer Company further expanded the consumer product line into weather instruments. Two separate marketing groups were established for the consumer and industrial markets to advance these new product lines.

In 1984, The Cooper Thermometer Company purchased the Industrial Division of (Electro-Therm) Electromedics in Englewood, Colorado. This acquisition immediately launched Cooper into the Digital Thermometer business and the company officially became Cooper Instrument Corporation.

In 2001, Cooper Instrument acquired Atkins Technical, the leader in thermocouple technology, who responsively serves 19 of the top 25 restaurant chains. In 2002, KTG, Inc., was acquired, a developer of wireless solutions including temperature monitoring, food safety, handheld PDA applications including inspections and training, and innovative software solutions. Now, as Cooper-Atkins Corporation, we are meeting customers' needs with the most comprehensive line of measurement solutions.

For over 120 years Cooper-Atkins has been a leading manufacturer of environment solutions and innovative food safety. We have global reach, and are a trusted resource for reliable, high-quality instruments and expert advice. As the company continues to meet the needs of its customers, it will do so by not only remaining focused on the education and promotion of important industry issues, but by the dedication of providing the highest level of customer service and satisfaction!

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SuperValue Twin2Pack Two 1246-02 Instant Read

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MFM300 Multi-Function Instrument[™]



Lighten your load and increase your capabilities by using the MFM300. It's your choice . . . use the following separate instruments and tools:

- Digital Thermometers
- Anemometers
- Sling Psychrometers
- Data Loggers
- Gauge Sets
- P-T Charts
- Psychrometric Charts

Or just use one . . . the MFM300!

The MFM300 has the ability to measure, calculate and display the following:

- Temperature 3 Zones
 - Delta T
 - Min, Max and Average
- Pressure
- Superheat & Sub-Cooling
- Psychometrics
- Airflow
- Data Logging
- Upgradeable

The MFM300 is designed as a modular, upgradeable and expandable system, allowing the user to add as needed:

- Probes
- Features
- Capabilities

Eliminates Cost!



Technician measures with one instrument, the MFM300



Use the MFM300 to calculate - in no time





The MFM300's Universal Jack system allows you to add the functions you need - when you need them.

- Three Temperature Jacks (T1, T2, & T3) Two Universal Inputs (U1 & U2)
- Instrument instantly recognizes all probes and accessories . . . no setup required.

Basic Kit Contains:

- Model MFM300 Multi-Function Expandable Instrument
- Model 1075 Puncture Probe
- Model 4011 Surface Probe With 8" Velcro Strap
- Hard Carrying Case
- Carrying Case Strap

For additional kits, see Page 7 for more information.

MFM300 Specifications:

Temperature

Temperature Measurement Range:

Accuracy:

Temperature Display Resolution:

Humidity

Relative Humidity Measurement Range: Accuracy: Relative Humidity Display Resolution: Dry-bulb Measurement Range:

Accuracy: Dry-bulb Display Resolution:

Pressure

o to 500 PSI Accuracy: o to 1000 PSI Accuracy:

Air Flow

Temperature Range: Accuracy:

Velocity:

Resolution:

Refrigerants P/T Data for 15 refrigerants already installed:

> Model 1075 Puncture Probe

MFM300 Ambient Operating Conditions:

Power Power Source:

Battery Life:

Warranty

Instrument:

Probes:

-58 to 302°F / -50 to 150°C ±0.3°F/0.2°C or ±0.5% of Reading whichever is greater 0.1 Degree

0% to 99% RH ±2% RH 1% RH -40 to 185°F / -40 to 85°C ±0.5°F/0.3°C 0.1 Degree

±1% Full-Scale ±1% Full-Scale

32 to 150°F / o to 65°C ±2°F / 1°C 100 to 6,000 FPM / 0.5 to 30 MPS ±3% of Reading, +0.5% FS at 77°F / 25°C 1 FPM / 0.01MPS

R-11, R-12, R-22, R-123, R-134A, R-401A, R-401B, R-402A, R-402B, R-404A, R-408A, R-409A, R-410A, R-502, R-507

32 to 120°F / o to 50°C 10% to 90% RH Non-condensing

4 - AA Alkaline Batteries (Included) 100 Hours Minimum

Warranty 2 years (Extended warranty is available) 1 year warranty



The MFM300 heavy duty case has enough storage for all your probes. An adjustable shoulder strap allows for hands-free portability while climbing ladders! Model MFM300 Multi-Function Expandable Instrument

> Model 4011 Surface Probe With 8" Velcro Strap



MFM300 Accessories

The MFM300 Universal Jack System allows you to add the functions you need when you need them!

Add or Change Refrigerants: P-T data is programmed in the MFM300's memory for 15 of the most popular refrigerants. You can add P-T data for up to 5 additional refrigerants (R-23, R-124, R-407C, R-414B, and R-508B) by using our Refrigerant Update Tag (Model RU300, requires GL300) or by visiting www.cooper-atkins.com.



Model RU300

Calculate Superheat/Sub-Cooling:

Easily calculate superheat / sub-cooling with only a temperature probe attached to the refrigeration system.

The pressure value (from a manifold gauge) can be manually entered and the resulting superheat / sub-cooling value will be displayed.



Measure Pressure and View Real Time Superheat /

Sub-cooling Values: The MFM300 replaces your manifold gauge set for dynamic pressure measurement. Choose from 500 PSI

(Model 5250) or 1000 PSI



Model 5200/5250

(Model 5200) Pressure Probes. Connect the pressure probe to either universal jack and the MFM300 will display the pressure measurement.





Measure Relative Humidity & Dry-Bulb Temperature:

The MFM300 will display the relative humidity and dry-bulb temperature

measurements when the humidity probe (Model 5029) is connected to either universal jack.



Display Psychometrics: Press the PSYC button and Psychometrics are calculated from the current relative humidity and dry-bulb measurements. Requires at least

one relative humidity probe (Model 5029). Psychrometric values displayed are: enthalpy, specific humidity,



wet bulb, dry bulb, % RH and dew point.

Measure CFM, CMS, FPM,

and MPS: Airflow and temperature can be measured by using the Thermo-Anemometer (Model 5400) connected to either universal jack.





Model 5400



Log Temperature Data:

Use Data Logging Kit (Model GL300) to view temperature data on the MFM300. Download to your PC via the computer connection cable (Model 9360).



Data Logging Kit

Safely and Efficiently Connect Pressure Probes

to System: Choose from 500 PSI (Model 9355) and 1000 PSI (Model 9350) Pressure Hose Kits. These convenient kits include a 12" (304.8 mm) x 1/4" (6.35 mm) charging hose, access control valve, and a SAE flare tee. Charge while monitoring system pressure.



Expand Your System: No one wants to waste time or money on a system that soon will become outdated. This instrument will not become obsolete! Cooper-Atkins will constantly be adding new accessories and / or upgrades to the MFM300 System.

Download both MFM300 updates and new refrigerants from www.cooper-atkins.com: Transfer to the MFM300 via your PC and the Computer Connection Cable (Model 9360).

• MFM300 Toolbox - a PC program used to:

- Upgrade your instrument
 - Add refrigerants
 - View Data Logger information

Go to www.cooper-atkins.com to download MFM300 Toolbox.



Model 9360 Shown (USB Version Available Soon)

MFM300 Kits

Each kit contains the following:

- MFM300 Multi-Function Expandable Instrument
- General Purpose Probe (Model 1075)
- Pipe Strap Probe (Model 4011)
- Heavy-duty carrying case with detachable shoulder strap

Air Conditioning (MFM300-KIT1)

- Assists in determining system efficiency
- Instantly displays Psychometrics
- Perform basic air balancing
- Also includes:
 - Vane CFM Thermo-Anemometer (Model 5400)
 - Humidity Probe (Model 5029)

General Purpose HVAC/R (MFM300-KIT2)

- Expands MFM300 capability to include humidity and psychrometric readings
- Instantaneously calculates superheat / sub-cooling as pressure and temperature change
- Speed & accuracy improved greatly over traditional analog gauge sets
- Also includes:
 - 1000 PSI Pressure Probe (Model 5200)
 - Humidity Probe (Model 5029)

Real-time Superheat/Sub-Cooling (MFM300-KIT3)

- Eliminates manual input of pressure readings
- Superheat / Sub-cooling instantaneously calculated as pressure and temperatures change
- Compatible with all common refrigerants (Additional refrigerants available)
- Also includes:
 - 500 PSI Pressure Probe (Model 5250)
 - 1000 PSI Pressure Probe (Model 5200)

Deluxe (MFM300-KIT4)

- Maximize the capabilities of the MFM300 and get it all!
- Also includes:
 - Vane CFM Thermo-Anemometer (Model 5400)
 - 500 PSI Pressure Probe (Model 5250)
 - 1000 PSI Pressure Probe (Model 5200)
 - Humidity Probe (Model 5029)



Thermistor Temperature Instruments

SH66A Series - For

applications where multiple temperature measurements need to be taken, this is the instrument to use. Measure suction and liquid line temperatures simultaneously, temperatures across condensing coils, evaporator coils, as well as the ambient temperature,



all at the same time! The Constant

Scan feature records the min/max temperature from three probes allowing the technician to monitor critical temperatures remotely while completing other tasks.

SH66A includes: (1) Model 1075 General Purpose Puncture Probe, (1) Model 2010 Air Probe, (1) Model 4011 Pipe Strap Probe

SH66AC includes: (1) Model 1075 General Purpose Puncture Probe, (1) Model 2010 Air Probe, (1) Model 4011 Pipe Strap Probe and is °C prominent.

- 3-Zone
- Scan mode
- Min/Max memory
- - Auto shut-off with override

TM99A, TC100A Series -

For those applications where only one temperature is read at a time, this series of single zone temperature

meters is an industry standard. Choose from the basic Model TM99A, the UL approved Model TM99A-UL or the rechargeable Model TC100A.



TMooA includes:

(1) Model 1075 General Purpose Puncture Probe and hard carrying/storage case. TM00AC includes:

(1) Model 1075 General Purpose Puncture Probe, hard carrying/storage case and is °C prominent. TM99A-UL includes: (1) Model 1075 General Purpose

Puncture Probe, hard carrying/storage case, UL approved (Class 1, Groups C & D), and temperature code T₃C.

TC100A includes: (1) Model 1075 General Purpose Puncture Probe, hard carrying/storage case, NiCad battery, and battery charger.

- Single zone
- Min/Max memory
- Hold button
- Auto shut-off

SH44A Series -

The SH44A is an economical alternative with the durability of Model SH66A. This dual-zone unit allows for accurate temperature measurement of two areas at once.

SH44A includes:

(1) Model 1075 General Purpose Puncture Probe and (1) Model 4011 Pipe Strap Probe. SH44AC includes: (1) Model 1075 General Purpose Puncture Probe, (1) Model 4011 Pipe Strap Probe and is °C prominent.

- Dual zone
- Min/Max memory
- Scan mode
- Auto shut-off

Purpose Probe.

• Single-Handed Use

• Auto Shut-off after 5 Minutes

• Mode Button: Hold, Max & Min

Probe: 20 Seconds in 32°F Bath

Response Time - Puncture

Repeatability

of Non-use









Nylon Belt Pouch included

Thermistor Temperature Instruments & Specifications



T158 - Oval Panel Thermometer Temperature Only Unit with Thermistor Probe

Features

- Wall or Desk Mount
- °F/°C Selectable
- (Outdoor) Temperature Range: -58 to 158°F (-50 to 70°C)
- (Indoor) Temperature Range: 32 to 122°F (o to 50°C)
- Temperature Accuracy: ±2°F/±1°C
- Cord Length: 120″/304 cm
- Battery: 1 Alkaline 1.5v, AAA
- Warranty: 1 Year



1070 - Digital Indoor/Outdoor Wall Thermometer

- Hard-wired Sensor
- Min/Max Memory
- Thermistor Sensor
- Large 1-3/8" x 1-5/8" LCD
- (Outdoor) Temperature Range: -58 to 158°F (-50 to 70°C)
- (Indoor) Temperature Range: 32 to 122°F (o to 50°C)
 Accuracy: ±2°F/1°C or
- Accuracy: ± 2°F/1°C or 2% of Reading
- Sensor Length: 10'
- Weight: 5.5 oz
- Power: (1) 1.5v AAA
- Warranty: 1 Year

MODELS						
	SH44A SH44AC	SH66A SH66AC	ТС100А	TM99A TM99AC TM99A-UL	4005I	
Temperature Range	-40° to 300°F -40° to 150°C	-20° to 300°F -29° to 150°C				
Temperature Accuracy	±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 from -20° to 300°F -29° to 150°C				
Ambient Temp. Range	0° to 130°F max	o° to 130°F max	o° to 130°F max	o° to 130°F max	o° to 120°F	
Resolution	0.1°F/°C	0.1°F/°C	0.1°F/°C	0.1°F/°C	0.1°F/°C	
Display	4 digit .5" LCD	3 digit .25" LCD				
Backlight	•	•	•	•		
		INDICA	TIONS			
LO	•	•	•	•		
HI	•	•	•	•		
°F	•	•	•	•	•	
°C	•	•	•	•	•	
Zones	2	3	1	1	1	
CL	•	•	•	•		
SCAN	•	•				
Case Material	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyamide	
Case Dimensions	9.5" x 6.5" x 3.5"	9.5" x 6.5" × 3.5"	7" × 3" × 1"	7" × 3" × 1"	6.7" X 4.1" X 0.92"	
Weight	1.55 lbs	1.55 lbs	1.27 lbs	1.27 lbs	0.315 lbs	
Power	(1) 9V Alkaline	(1) 9V Alkaline	(1) 9V Nicad	(1) 9V Alkaline	(1) Button Cell LR44 or AG13	
Battery Life	90 hours					
Calibration	Factory Calibrated	Factory Calibrated	Factory Calibrated	Factory Calibrated	Factory Calibrated	
Warranty	1 Year					



Humidity / Temperature Instruments

SRH77A Series -

Where temperature and relative humidity readings are important, Model SRH77A is the expert's choice. Whether it be HVAC/R applications, storage management, computer room monitoring or troubleshooting, you will find this to be an accurate and fast service tool. The bright blue rugged carry case makes this tool easy to find when on location or in the back of a service truck.

0340 -

Optional Nylon Belt Pouch Used on

SRH122 &

DRH122



SRH122 – Digital Psychrometer, no more water, no more twirling, and no more charts! It gives fast, accurate measurement of wet bulb, dew point, temperature, and humidity.



- Displays: wet-bulb, dew point, temperature, and humidity
- Min/Max memory
- Data hold
- Auto shut-off after 20 minutes of non-use
- Switchable °F/°C

DRH122 – Measure and display environment temperatures and humidity readings in a matter of seconds with this compact Thermo-Hygrometer Pen. Designed for simplicity and one-handed operation.

- Displays: Temperature and Humidity
- Humidity
 Min/Max memory
- Switchable °F/°C

SRH77A includes:

- Model 1075 General Purpose Puncture Probe
- Model 4011 Pipe Strap Probe
- Model 5028 Humidity Probe

SRH77AC includes all the above probes and is °C prominent.

Features include a backlight display for dark environments, sealed keypad which protects the instrument from spills and dust, and a battery eliminator jack.

- 3-zone.
- Min/Max memory
- Scan mode
- Auto shut-off after 15 minutes of non-use or continuous ON mode
- Temperature differential between zones 1 and 2
- %RH and wet bulb
- Switchable °F/°C

TRH122M - Mini Thermistor Temperature/Humidity Instrument



- Measures temperature and %RH
- Accurate internal sensors
- Switchable °F/°C
- Min/Max memory feature



Humidity / Temperature Instruments & Specifications

TRH158 - Temperature & Humidity Unit with Built-in Sensor



Features

- Wall or Desk Mount
- °F/°C Selectable

Specifications TRH158 Oval Panel Thermometers

- Temperature Range: -58 to 158°F (-50 to 70°C)
- Temperature Accuracy: ±2°F/±1°C
- Humidity Range: 25% to 90% RH
- Humidity Accuracy: ±5% RH
- Sensor: Thermistor
- Battery: 1 Alkaline 1.5v, AAA

TRH158-1

Temperature & Humidity Unit with Thermistor Temperature/Humidity Probe for Indoor / Outdoor Applications



Features

- Wall or Desk Mount
- °F/°C Selectable

Specifications TRH158-1 Oval Panel Thermometers

- Temperature Range: -58 to 158°F (-50 to 70°C)
- Temperature Accuracy: ±2°F/±1°C
- Humidity Range: 25% to 90% RH
- Humidity Accuracy: ±5% RH
- Sensor: Thermistor
- Cord Length: 120"/304 cm
- Battery: 1 Alkaline 1.5v, AAA

		MODELS		
	SRH77A SRH77AC	SRH122	DRH122	TRH122M
Thermistor	•	•	•	•
Temperature Range	-40° to 300°F -40° to 150°C	-4° to 122°F -20° to 50°C	14° to 122°F -10° to 50°C	14° to 122°F -10° to 50°C
Temperature Accuracy	±.3°F/.2°C ±1.8°F°/1.0°C ±.5% Rdg or whichever is greater		±2°F/1.0°C	±1.8°F/1.0°C
Ambient Temp. Range	o° to 130°F max	-4° to 122°F max	14° to 122°F max	14° to 122°F max
Resolution	0.1°F/°C, 1% RH	0.1°F/°C, 0.1% RH	0.1°F/°C, 1% RH	0.1°F/°C, 1% RH
Humidity Range	10 to 95% RH	o to 100% RH	20 to 90% RH	10 to 99% RH
Humidity Accuracy	±2% from 20 to 80% RH	±3% from 10 to 90% RH	±5% from 40 to 80% RH	±5% from 25 to 95% RH
	±3% below 20% and above 80% RH	±4% below 10% and above 90% RH	±7% below 40% and above 80% RH	±7% below 25% and above 95% RH
Ambient Humidity Range	10 to 95% RH, 90% non-condensing	o to 100% RH	10 to 95% RH	10 to 100% RH
Display	4 digit, .5" LCD	6.5 x 9 mm LCD	.25" LCD	Dual 11 mm LCD
Backlight	•			
		NDICATION	IS	
LO	•			
н	•			

LO	•			
н	•			
LO-P	•			
°F	•	•	•	•
°C	•	•	•	•
1, 2 OF 3	•			
CL	•			
SCAN	•			
%RH	•	•	•	•
Case Material	Polyethylene Carry Case	ABS	ABS	ABS
Case Dimensions	9.5" × 6.5" × 3.5"	6.88" x 1.5" x 0.9"	5.94" × .79" × .67"	4.35" × 2.77" × .75"
Weight	1.9 lbs	2.5 OZ	0.8 oz	2.9 OZ
Power	(1) 9V Alkaline	(1) 3V CR2032	(1) 1.5V LR44	(1) 1.5V AAA
Battery Life	90 hours	100 hours	1 year	1 year
Calibration	Factory Calibrated	Factory Calibrated	Factory Calibrated	Factory Calibrated
Warranty	1 Year	1 Year	1 Year	1 Year



Thermistor Probes

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

Don't see what you need? We build probes to order. Go to: www.cooper-atkins.com/ customprobes.html



800-835-5011 • 860-347-2256

Thermistor Probe Specifications

					MO	DELS						
	1013	1014	1030	1050	1052	1075	1078	200	57	2010	2015	2020
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 3 -40° to 1		-40° to 200° -40° to 93°C		-40° to 300°F -40° to 149°C			
Max Tip Temp	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	300°F/1	49°C	200°F/93°C	200°F/93°C	300°F/149°C
Max Cord Temp	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	400°F/2	.04°C	200°F/93°C	200°F/93°C	400°F/204°C
Response Time	6 seconds	100 seconds	20 seconds	6 seconds	4 seconds	6 seconds	6 seconds	18 secc	onds	20 seconds	20 seconds	6 seconds
Shaft Length	4"	17"	2.5"	3.4"	2.9"	4"	7.25"	4"		0.5"	0.5"	4"
Cord Length	6' polyurethane uncoiled	6' polyurethane uncoiled	6' teflon straight cord	6' polyurethane uncoiled	6' polyurethane uncoiled	6' polyurethane uncoiled	6' polyurethane uncoiled	10' tef straight		12' polyurethan straight corc		4' teflon straight cord
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Yea	ar	1 Year	1 Year	1 Year
		ŕ		, i	Μ	ODELS	·	·				1
	3010	4005	4011	4040	5028	3 500	05 60	00	ć	020	7010	7040
Temperature Range	-40° to 300° -40° to 149°									to 200°F to 93°C	-40° to 200°F -40° to 93°C	-40° to 200°F -40° to 93°C
Humidity Range	-	-	-	-	10 to 95%	RH -	-			-	-	-
Max Tip Temp	200°F/93°C	N/A	212°F/100°	300°F/149°0	150°F/66	°C 300°F/14	.9°C 200°F/9	93℃	200	°F/93°C	200°F/93°C	200°F/93°C
Max Cord Temp	200°F/93°C	200°F/93°	C 200°F/93°C	200°F/93°C	200°F/93	°C 200°F/9	3°C 200°F/9	93℃	200	°F/93°C	200°F/93°C	200°F/93°C
Response Time	15 seconds	12 second	s NA	15 seconds	NA	NA	NA			NA	20 seconds	20 seconds
Shaft Length	3"	-	-	3.5"	4.9"	4″	18"			18"	0.5"	0.5"
Cord Length	6' polyurethan	e 10' TPE uncoiled	12' polyurethar	6' polyurethar uncoiled	e 6' PVC coiled co		12' PV ane straight			' PVC ght cord	6" PVC straight cord	4″ PVC straight cord
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	r 1 Yea	ır	1	Year	1 Year	1 Year

SOO5 Air probe



5028 Slim humidity probe

6020

Panel meter pigtail lead 18" flexible waterproof thermistor probe

7010

Air/Surface probe with phono plug field assembly

7040

Panel meter pigtail lead 0.5" thermistor air probe



.156 Ø

.160 Ø

We build dozens of custom probes. Rely on us to manufacture a probe for your specific requirements.

Cooper ATKINS www.cooper-atkins.com

6000

18" flexible thermistor probe with 12'

Thermocouple Instruments

VersaTuff[™] models are designed to accept all Type K Thermocouples. Instrument can also be configured to accept "J" and "T" Thermocouples. The features are state of the art electronics, manufactured in ISO 9001 : 2000 facility. With over 250 probes to choose from, this line has everything you will need for any application (see a small selection of our probes on pages 16 and 17).



- VersaTuff Series 386 and 396: -40° to 1832°F / -40° to 1000°C

 - ±0.9°F / ±0.5°C from -40° to 495°F / -40° to 257°C $\pm 0.6\%$ of reading for remainder of range
 - 1 AA Battery 1000 hours
 - Uses any Type K Thermocouple Probe

Additional Features of the 396:

- Backlit LCD Hold button freezes
- current reading • Whole and tenth
- degree selectable

The AccuTuff[™] series with Wrap&Stow[™] probe is the right choice when accuracy is your top priority. Total System Accuracy[™] ensures this instrument and probe combination will deliver. The probe is calibrated with the instrument to deliver a TRUE $\pm 0.9^{\circ}$ F accuracy and requires no additional calibration - ever! The heavy duty patented probe is reinforced with Kevlar[®] and a stainless steel braid that neatly wraps and stows your choice of 4 probe combinations.



AccuTuff Series 330 and 340:

- -40° to 500°F / -40° to 260°C
- $\pm 0.9^{\circ}F / \pm 0.5^{\circ}C$ total system
- 1 AA Battery 1000 hours
- Wrap&Stow probe
- Water resistant construction

Additional Features of the 330:

- Backlit LCD • Hold button freezes
- current reading • Whole and tenth degree selectable

AccuTuff 340





Cooper-Atkins builds dozens of custom thermocouple instruments to meet the unique requirements of our multi-unit partners. Allow us to design one for you. For additional information go to:

www.cooper-atkins.com/thermocouples.html



AccuTuff Series Replacement Probes

DuraNeed e Probes are best used to measure insertion and immersion temperatures. They are quick and rugged for dependable performance, and are included in the 33032 and 34032 AccuTuff Kits. To order replacement DuraNeedle probes, use model numbers 53032 and 54032.

MicroNeedle Probes are designed to provide the greatest response with minimal impact on the product, and are included in the 33040 and 34040 AccuTuff Kits. To order replacement MicroNeedle probes, use model numbers 53040 and 54040.



VersaNeedle Probes are best for general use, everything from testing equipment surfaces to insertion and immersion temperatures, and are included in the 33041 and 34041 AccuTuff Kits. To order replacement VersaNeedle probes, use model numbers 53041 and 54041.

Surface Probes are designed for use on any flat surface. Bell self-orients to the surface, giving superior contact and are included in the 33035 and 34035 AccuTuff Kits. To order replacement Surface probes, use model numbers 53035 and 54035.



Thermocouple Instruments

The New EconoTemp[™] Series is the highest technology you will find in economy thermometers. Designed with a powerful microprocessor, it delivers speed and reliability and a unique memory which stores the calibration settings and will virtually never need recalibration. A rubber boot protects the ABS plastic housing securely delivering impact ratings not found in other economy models. Both units are CE Marked, have 3 AAA, 1.5v batteries with 4500 hours of battery life for Model 32311 and 1500 hours battery of life for Model 32322. Both thermocouple instruments use any Type K Thermocouple Probe.



Hard wired probe

32311 EconoTemp • -40° to 500°F /

- -40° to 260°C
- ±2°F / ±1°C
- NSF Listed



93230 EconoTemp Combo pack includes the 32311 Thermocouple with DuraNeedle probe 50336.

If you are in the market for a durable thermocouple with fast response, then choosing the AquaTuff FW2000 Series is a wise decision. Both the AquaTuff FW2000 and AquaTuff FW2000MK are NSF certified, and are waterproof, making them ideally suited for wet, steam-filled environments. The FW2000 features a hard-wired, quick-response probe, while the FW2000MK has a Type K mini-connector, and accepts a wide variety of probe styles. Each unit is: $\pm 1^{\circ}$ F / $\pm 0.5^{\circ}$ C from -35° to 350°F / -37° to 177°C, $\pm 2^{\circ}$ F / $\pm 1^{\circ}$ C overall and uses a 9 Volt alkaline battery.



32322 EconoTemp Plus

- -40° to 1000°F / -40° to 538°C
- Resolution: 0.1°F from -40.0° to 495.0°F
 0.1°C from -40.0° to 257.0°C
 ±1°F / ±0.5°C and whole degree resolution
 over remainder of range °F/°C

Model 32322

• ±2°F/±1°C

For those tough-working environments where you need a durable thermocouple, TD2000 includes 2 Model 6030MK Bead Probes and wrist strap. Model TD2000-01 includes 2 Model 6030MK Bead Probes, 1 Puncture Probe 1070MK and wrist strap.

TD2000 & TD2000-01 Thermocouples

- -58° to 2000°F / -50° to 1093°C
- Resolution: 0.1°F / 0.1°C
- ±4°F / ±2°C From -58°F / -50°C to 32°F / 0°C, ±0.3% plus ±4°F / ±2°C from 32°F to 2000°F / 0°C to 1093°C
- Battery, (1) 9V Alkaline, 90 Hours
- Uses Type K Thermocouple Probe



Models TD2000 & TD2000-01 See page 9 for additional information



Type K Thermocouple Probes



Type K Thermocouple Probe Specifications

			MODELS			
	4005MK	6030MK	50010-K	50012-K	50069-K	50014-K
Temperature Range	-20° to 300°F -29° to 149°C	-100° to 500°F -73° to 260°C	-40° to 400°F -40° to 205°C	500°F/260°C	-40° to 500°F -40° to 260°C	500°F/260°C
Мах Тір Гетр	NA	500°F/260°C	400°F/205°C	500°F/260°C	500°F/260°C	500°F/260°C
Max Cord Temp	200°F/93°C	500°F/260°C	400°F/205°C	176°F/80°C	221°F/105°C	400°F/205°C
Response Time	2 Seconds	0.5 Seconds	9 Seconds	4 Seconds Oiled Surface	4 Seconds Oiled Surface	2 Seconds Oiled Surface
Shaft Length	-	NA	-	4.5″/114 mm	8″/203 mm	-
Cord Length	120" TEP straight cord	42" teflon straight cord	36" teflon Flexible cable	48" PVC Extended 12" PVC Retracted	36" PVC Jacket Flexible cable	30" Flexible Armored Cable
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year

			MODELS			
	50101-K	50121-K	50207-K	50208-K	50209-K	50305-K
Temperature Range	-40° to 400°F -40° to 205°C	-40° to 500°F -40° to 260°C	500°F/260°C	400°F/205°C	500°F/260°C	-40° to 400°F -40° to 205°C
Max Tip Temp	400°F/205°C	500°F/260°C	500°F/260°C	400°F/205°C	500°F/260°C	400°F/205°C
Max Cord Temp	400°F/205°C	176°F/80°C	-	NA	176°F/80°C	176°F/80°C
Response Time	4 Seconds Liquids	1 Second Liquids	1 Second Liquids	8 Seconds Liquids	3 Seconds Liquids	24 Seconds Air
Shaft Length	4.25″/108 mm	-	3.75″/95 mm	7.3″/185 mm	3.5″/89 mm	8′/2.4 m
Cord Length	30" Flexible Armored Cable	48" PVC Extended 12" PVC Retracted	-	30" Flexible Armored Cable	48" PVC Extended 12" PVC Retracted	24" PVC Extended 6" PVC Retracted
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year

			MODELS			
	50306-K	50318-K	50332-K	50335-K	50336-K	50338-K
Temperature Range	600°F/315°C	1202°F/650°C	-40° to 500°F -40° to 260°C	500°F/260°C	500°F/260°C	896°F/480°C
Max Tip Temp	600°F/315°C	1202°F/650°C	500°F/260°C	500°F/260°C	500°F/260°C	896°F/480°C
Max Cord Temp	NA	176°F/80°C	176°F/80°C	176°F/80°C	176°F/80°C	NA
Response Time	1 Second Liquids 10 Seconds Air	1 Second Oiled Surface	5 Seconds Air	4 Seconds Liquids	2 Seconds Liquids	1 Second Liquids 9 Seconds Air
Shaft Length	2.125"/54 mm w/Clip	4″/102 mm	4″/102 mm	4.5″/114 mm	6″/153 mm	-
Cord Length	43" Flexible SS Braid Cable	48" PVC Extended 12" PVC Retracted	48″ Flexible Cable w/Clip			
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year

NOTE: Probes are also available in Type J and Type T configurations.



Accessories

87-430010-1 -

Safely protect your instrument with this hard polyethylene storage case. For use with Models TM99A and TC100A.





9339 - Soft carry case/holster pouch attaches to your belt and the velcro flap keeps the unit stored safely inside. For use with Models 412, 460, 4005, 4005l, 4005MK, TD2000 and TD2000-01.

9348 - Durable rubber boot designed specifically for the FW2000 series. Features include a velcro strap for securing to your belt. Ribbed backing lessens the shock to the unit if dropped.



9302 - 3.56" x 3" mounting flange is required when mounting Model PM120 in an opening that is larger then the unit itself. It fills the space and securely holds the unit in place.



9150 - Probe Wipes clean and sanitize probes quickly without skin contact. It is not necessary to rinse the probe with water after using Cooper-Atkins probe

wipes. Simply air dry and you are ready to test another temperature. Packaged in a box of 200, each wipe contains 70% Isopropyl Alcohol.





9010 -10' extension cable and 9015 -50' extension cable, allows to extend leads depending on use and location.



It is recommended that cable lengths do not exceed 1,000' to ensure instrument accuracy. Can be used with any Cooper thermistor probe.

GL Series – Water-Resistant Mini Data Loggers

- Monitors both time and temperature
- Records at specific intervals from 1 minute to 4 hours
- Mounting bracket with adhesive backing
- Stainless steel bead chain, to hang from racks or hooks
- Long-life battery





GL100 includes: (2) two mini data loggers, (2) two mounts, reader and software

GL100-02 includes: (2) two mini data loggers, (2) two mounts

GL100 – Water-Resistant Mini Data Loggers

Temperature Range:	-40°to 185°F (-40° to 85°C)
	±2°F from -4° to 158°F/±1°C from -20° to 70°C
Clock Accuracy:	±2 minutes per month
Overall Tag Dimension:	2" x 2-5/8"
Records:	2,048
PC Requirements:	Windows 95 or higher, Minimum of 10MB of free
	hard drive space and CD-Rom (will not work on
	Macintosh computers)
Warranty:	1 Year

Digital Pocket Test & Specifications

From laboratories to the service repairman, these fast response digital pocket thermometers will simplify any user's job. Cooper-Atkins offers a wide range of fast response Digital Pocket Tests, with 0.1° resolution on easy to read 0.25" / 6.4 mm high LCD displays and a 5" / 127 mm stem length. Thermistor sensors are located in the probe tip for quick, response time and accurate readings. A Thermistor is a semiconductor device whose resistance changes with the temperature.

DPP400W

Pen Style

Waterproof



DFP450W

Waterproof

Auto shut-off
°F/°C switchable

Field calibratableMax temperature hold

• Lifetime warranty

Coolit-Rite™ TTM41

- Monitors Cooling
- Waterproof
- 15" Stainless Steel Stem with minimal depth indicator
- Adjustable Vessel Clip
- Min/Max temperature hold
- °F/°C switchable
- Loud Alarm (90 decibels)
- 1 Year warranty



DT300 - Oval Style

- On/Off switch
- °F/°C switchable

	DFP450W	DPP400W	DT300	Series	QC450	TTM41
Temperature	-40° to 450°F	-40° to 392°F	-40° to 302°F	DP5300:	-40° to	-4° to 302°F
Range	-40° to 232°C		-40° to 302 F	-58° to 302°F		-20° to 150°C
Kange	-40' 10 232'C	-40' 10 200'C	-401 10 15010	-58' 10 302'F	450°F	-20- 10 150-C
				DPS300C:		
				-50° to 150°C		
Accuracy	±2°F/1°C	±2°F/1°C from	± 2°F/1°C from	±1.8°F/1°C from	±2°F	± 2°F/1°C from
,	,	14° to 212°F	-10° to 212°F	0° to 160°F		-4° to 212°F
		(-10° to 100°C)	(-23° to 100°C)	(-18° to 71°C)		(-20° to 100°C)
		±3°F (1.5°C)	±4°F/2°C	±3.6°F/2°C		±3°F/2°C
		all other ranges	all other ranges	all other ranges		all other ranges
Display	.25" LCD	.25" LCD	.25" LCD	.25" LCD	.25" LCD	1" LCD
Stem Length	4.625"	2.75"	4.625"	5"	4"	15"
Resolution	0.1°F/°C	0.1°F from	0.1°F/°C	0.1°F/°C	0.1°F	0.1°F/°C
		-40 - 199°F,				
		1°F from				
		200 - 392°F,				
		0.1°C throughout				
		the entire range				
Power	(1) 1.5V #392	(1) 1.5V #A76	(1) 1.5V #A76	(1) 1.5V #A76	(1) 1.5V #AAA	(1) 1.5V #LR44
Auto Shut-Off	After 10 min.	After 5 min.			After 50 min.	
	of non-use	of non-use	N/A	N/A	of non-use	N/A
Weight	0.7 OZ	0.9 OZ	0.7 OZ	0.8 oz	3.3 OZ	1.9 OZ
Regulatory						
Listings	NSF	NSF	N/A	N/A	N/A	NSF & CE
Warranty	Lifetime	1 Year	1 Year	1 Year	1 Year	1 Year
						·

Auto shut-off

Waterproof

• °F/°C switchable

MODELS

• Max, Min and Hold temperature

DPS300



DPS300 and DPS300C Swivel Head Style

- Swivel head turns 30°, 60° or 90°
- DPS300 °F only; DPS300C °C only



QC450 - Harsh Environment

- -40° to 450°F
- ±2°F
- 1.5 Volt Battery
- Automatic Shut-off



Bi-Metal Stem Test Thermometers

The Bi-Metal Stem Test pocket thermometer is an economical, quick and easy way to monitor temperatures with excellent repeatability, refer to the top of page 21 for specifications

CT180 / CT220 Series -

Light up your pocket with a Neon Thermometer - Choose from 2 Temperature Ranges and 3 Bright Colors!

• Choose from 2 Temperature Ranges: CT180 Temperature Range: -40° to 180°F CT220 Temperature Range: 0° to 220°F

Features

- Accuracy: ±4°F
- Water Resistant
- Anti-Roll Plastic Head
- 1" Magnifying Lens
- 5" Stem Length
- Field calibratable
- Black Protective Sheath with Built-in Wrench
- 3 Neon Colors Green, Yellow & Orange



Write - 7emp[™] - Ball-Point Pen & Bi-metal

Thermometer in One! Innovative 2-in-1 design incorporates a bi-metal o-220°F pocket test and retractable ball-point pen, housed in a pen sheath with a recalibration wrench.

Write - Tem/ 1246PS-02-8 Features:

- Retractable Blue Ball-Point Pen Shaft
- Recalibration Wrench
- Ribbed Finger Grip for Writing Comfort
- NSF Certified
- 1 Year Warranty



- Temperature Range: 0-220°F
- Accuracy ±2F°
- 1" Instant Read Dial
- Easy to Read Magnifying Lens
- Insertion Mark on Stem
- 1246PS-02C-8 Available in °C



Calibration Instructions:

Immerse thermometer stem in mixture of crushed ice and water (A). Use the sheath/calibration tool to hold adjusting nut (B). Turn thermometer head so pointer reads 32°F / 0°C. For scales that start reading above 32°F / 0°C, bring a pan of water to a full rolling boil and adjust so pointer reads 212°F / 100°C.





SuperValue Twin2Pack 1246 Series 1246-02-2, Offers two 1246 **Bi-metal Stem Test Thermometers** 2238 Series 2236 Series in 1 package. 1246-02C-2 available in °C 1246 Features • Field calibratable • Red protective sheath includes 2238 Features 2236 Features calibration wrench • Field calibratable • Field calibratable • 1" magnifying lens NSF • 2" lens • Red protective sheath • 5" stem length • 8" stem length • 2" lens NSF Certified Vessel clip provided • 5" stem length

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800-835-5011 • 860-347-2256

Refer to the top of page 21 for specifications



Industrial Stem Test Thermometers and Specifications

The 2" dials are printed with large black numerals for ease in viewing. Offered with three temperature ranges and various stem lengths, these thermometers are an excellent choice for a variety of industrial applications.

- Bimetal coil movement and glass lens
- .25" diameter stainless steel stem
- Back flange bezel, chrome plated with (3) .150" diameter mounting holes equally spaced on a 2.9" diameter bolt circle



	2245 Series
100 120 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	

2255 Series

Bi-Metal Stem Test Thermometer Specs

	1246-01	M(1246-02	ODELS CT180	CT220	2236-02
Temperature Range	-40° to 180°F	0° to 220°F	-40° to 180°F	0° to 220°F	-40° to 180°F -40° to 80°C
Accuracy	±2°F	±2°F	±4°F	±4°F	±2°F/1°C
Dial	1" dia.	1" dia.	1" dia.	1" dia.	2" dia.
Stem Length	5"	5"	5"	5"	5"
Weight	0.7 OZ	0.7 OZ	0.7 OZ	0.7 OZ	1.2 OZ
Regulatory Listings	NSF	NSF	N/A	N/A	N/A
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year

	MOI	DELS
	2238-02	2238-06
Temperature Range	-40° to 180°F -40° to 80°C	0° to 220°F -10° to 100°C
Accuracy	±2°F/1°C	±2°F/1°C
Dial	2" dia.	2" dia.
Stem Length	8"	8"
Weight	1.25 OZ	1.25 OZ
Regulatory Listings	N/A	NSF
Warranty	1 Year	1 Year

Industrial Stem Thermometer Specs

MODELS						
	2225 Series	2245 Series	2255 Series			
Temperature Range	2225-02: 0° to 220°F 2225-03: -40° to 160°F 2225-05: 200° to 1000°F	2245-02: 0° to 220°F 2245-03: -40° to 160°F	2255-02: 0° to 220°F 2255-03: -40° to 160°F			
Accuracy	2225-02: ±2°F 2225-03: ±3°F 2225-05: ±20°F	2245-02: ±2°F 2245-03: ±3°F	2255-02: ±2°F 2255-03: ±3°F			
Dial	2" dia	2" dia	2" dia			
Stem Length	4"	6"	9"			
Weight	2.7 OZ	2.9 OZ	3.0 OZ			
Warranty	1 Year	1 Year	1 Year			



Remote Reading Panel Thermometers

Get accurate interior temperature readings without opening any doors. Keep the cold air in and hot air out and reduce the times your cooler / freezer door is opened. For additional information go to www.cooper-atkins.com/panel.html

Model SP160 - Digital Solar Panel - when temperature monitoring is essential and space is limited, the SP160 is the ultimate panel thermometer. Not only does the compact size allow the SP160 to fit in most places that other panel thermometers cannot - it does not require any external power sources.

Model SP120 - This solar powered instrument is an attractive alternative in those applications where conventional vapor tension panel thermometers have been used. When the ambient light is not strong enough to power the meter, the 1.5 volt battery automatically turns the unit on.



- Unit operates using ambient light (natural, fluorescent and incandescent)
- Solar/battery powered
- Switchable °F/°C

Digital Remote Rectangular Panel Thermometers

PM120 – When mounting space is limited, the digital Model PM120 is an ideal solution. This rectangular mini remote reading thermometer is °F and °C switchable.



PMRH120 – Now monitor both temperature and humidity at once with this new compact remote panel meter.

PMRN120 PM 80.3; 32, 0.= W/m= @@@ =%;

Features

 Max/Min button/ hold down to clear

Solar/battery powered

Easy-to-read LCD display

- On/Off button
- °F/°C button



- Max/Min Dui
 °F/°C
- Clear button

Front & Back Flange - Digital Remote Panel Thermometers

DM120 Series / DM450 Series - When a cabinet and / or enclosure requires fast and accurate temperature readings, the DM120 and DM450 series are the best choice. With the removable lens, battery replacement is easy.

PM200A Series / PM400K Series - When coolers and cases require constant and accurate temperature readings, the PM200A and PM400K series is your choice.





PM200A

PM400K



Remote Reading Specifications

				MC	DELS			
	SP160	SP120	PM120	PMRH120	DM120 Series	DM450 Series	РМ200А	PM400K
Thermistor	•	•	•	•	•	•	•	Type K Thermocouple
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	-12° to 140°F -24.4° to 60°C	DM120/DM120S: -40° to 120°F DM120CS: -40° to 50°C	DM450/DM4505: -40° to 450°F	-40° to 300°F	-40° to 999°F
Humidity Range	-	-	-	10 to 99% RH	-	-	-	-
Temperature Accuracy	±2°F from -4° to 31.9°F ±1°F from 32° to 122°F ±3.6°F below -4° and above 122°F	±3°F/±1.5°C	±1.8°F from -4° to 122°F ±3.6°F below -4°F	±2°F from -12° to 140°F	±2°F from -4° to 77°F, ±4°F below -4°F & above 77°F ±1°C from -20°C to 25°C, ±2°C below -20°C & above 25°C	±2% of reading	±0.3°F or ±0.5% of reading whichever is greater	±2°F or ±2% of reading whichever is greater
Humidity Accuracy	-	-	-	±5% 30 to 75%, with temp. from 32 to 122°F (0 to 50°C)	-	-	-	-
Ambient Temp. Range	o° to 120°F max	0° to 120°F max	0° to 120°F max	o° to 120°F max	o° to 150°F max	o° to 150°F max	40° to 130°F	40° to 130°F
Resolution	0.1°F/°C	0.1°F/°C	0.1°F/°C	0.1°F/°C	0.1°F/°C	0.1°F	0.1°F	1°F
Response Time	10 seconds	10 seconds	30 seconds	30 seconds	10 seconds	10 seconds	N/A	N/A
Display	1.4" x .5" LCD	1.825" X .625" LCD	1.825" x .625" LCD	1.825" X .625" LCD	1.3" x .5" LCD	1.3" x .5" LCD	1.5" x .5" LED	1.5" x .5" LED
Lux Rating	Above 100	Above 100	N/A	N/A	N/A	N/A	N/A	N/A
Lead Length	48"	120"	39"	39"	39"	39"	N/A	N/A
Mounting	Hangs	Hangs	Optional mounting flange (Model 9302)	Optional mounting flange (Model 9302)	DM120/DM120C: Front flange DM1205/ DM120CS: Back flange, surface mount	DM450: Front flange DM4505: Back flange, surface mount	Front flange	Front flange
Indications	NA	NA	NA	NA	Flashing HHH/HI: Shorted probe or above max. temp. Flashing LLL/LO: Open probe or below minimum temperature	Flashing HHH/HI: Shorted probe or above max. temp. Flashing LLL/LO: Open probe or below minimum temperature	LO: Open probe or below minimum temperature HI: Shorted probe or above max. temperature, Lo-P: battery is discharged	NA
Lens	-	-	-	-	2" dia. polycarbonate	2" dia. polycarbonate	-	-
Case Material	-	-	Polycarbonate	Polycarbonate	Stainless steel	Stainless steel	Black Noryl (PPO)	Black Noryl (PPO)
Case Dimensions	4.5" x 1.125" x .625"	2.77" x 2.68" x .68"	2.7" X 1.4" X 1.1"	2.7" X 1.4" X 1.1"	DM120 Series: 2.97" x 1.08" DM1205 Series: 3.47" x 1.1"	DM450: 2.97" x 1.08" DM450S: 3.47" x 1.1"	3.75" × 2.7" × 2.05"	3.75" x 2.7" x 2.05"
Weight	3.1 OZ	3.0 OZ	3.3 OZ	3.3 OZ	DM120/ DM120C: 3.8 oz DM120S/ DM120CS: 4.6 oz	DM450: 4.4 0Z DM450S: 5.2 0Z	5.5 oz	5.5 OZ
Power	Solar / (1) 1.5V AAA	Solar / (1) 1.5V A76	(1) AA	(1) AA	(1) 1.5V #393	(1) 1.5V #393	12VDC or 115AC	12VDC or 115AC
	1 Year	1 Year	1 Year		+		1	



Remote Vapor Tension Panel Thermometers

Used in many HVAC/R applications and offering various temperature ranges, these units are the perfect choice for use in walk-in refrigerators, tanks, refrigerated display cases, holding and speciality cabinets, dairy cases, freezers, floral displays and much more.



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Remote Vapor Tension Panel Thermometers Specifications

	6142-06	6142-13	6142-20	MODELS 6142-58	6642-06	6642-12	6742-19	6812-01
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	-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
Accuracy	±5°F @ 110°F ±3°F @ 200°F	±2°F @ 40°F ±4°F @ 10°F ±5°F @ 110°F	±2°F from 10° to 40°F ±3°F below 10°F and above 40°F	±2°F from 10° to 40°F ±3°F below 10°F and above 40°F	±2°F from 10° to 40°F ±3°F below 10°F and above 40°F	±5°F @ 110°F ±3°F @200°F	±2°F from 10° to 40°F ±3°F below 10°F and above 40°F	±2°F from 10° to 40°F ±3°F below 10°F and above 40°F
Dial	2" dia.	2" dia.	2" dia.	2" dia.	2" dia.	2" dia.	2" dia.	2" dia.
Capillary Length	48"	48"	48"	240"	48"	48"	48"	48"
Flange	Front	Front	Front	Front	Strap hanger no flange	Strap hanger no flange	U bracket no flange	Back
Connection	Back	Back	Back	Back	Bottom	Bottom	Back	Back
Mounting	Flush	Flush	Flush	Flush	N/A	N/A	N/A	Surface
Weight	5.2 OZ	5.2 OZ	4.7 OZ	6.8 oz	4.6 oz	5.1 OZ	5.6 oz	5.7 OZ
Regulatory Listings	NSF	NSF	NSF	N/A	N/A	N/A	NSF	NSF
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year

	(0)			MODELS	, ,	0	00
	6812-02	7112-01	7112-02	7112-05	7612-06	8122-01	8822-01
Temperature	-40° to 120°F	-40° to 60°F	-40° to 120°F	40° to 240°F	-40° to 60°F	-40° to 60°F	-40° to 60°F
Range	-40° to 50°C	-40° to 15°C	-40° to 50°C	10° to 115°C	-40° to 15°C	-40° to 15°C	-40° to 15°C
Accuracy	±2°F @ 40°F	±2°F from	±2°F @ 40°F	±5°F @ 110°F	± 2°F from	±2°F from	±2°F from
	±4°F @10°F	10° to 40°F	±4°F @10°F	±3°F @200°F	10° to 40°F	10° to 40°F	10° to 40°F
	±5°F @ 110°F	±3°F below 10°F	±5°F @ 110°F		±3°F below 10°F	±3°F below 10°F	±3°F below 10°F
		and above 40°F			and above 40°F	and above 40°F	and above 40°F
Dial	2" dia.	2.5" dia.	2.5" dia.	2.5" dia.	2.5" dia.	3.5" dia.	3.5" dia.
Capillary Length	48"	48"	48"	48"	48"	48"	48"
Flange	Back	Front	Front	Front	Strap Hanger	Front No Flange	Back
Connection	Back	Back	Back	Back	Bottom	Back	Back
Mounting	Surface	Flush	Flush	Flush	N/A	Flush	Surface
Weight	6.2 OZ	5.3 OZ	5.8 oz	5.8 oz	5.6 oz	9.0 OZ	9.0 OZ
Regulatory Listings	N/A	NSF	N/A	N/A	N/A	N/A	N/A
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year



Storage Wall Thermometers and Specifications

212 Series - Brightly colored, oversized wall thermometers allow easy monitoring of temperatures in critical food-related locations.

- HACCP reference color zoned dial
- Bimetal coil movement
- Large black pointer makes viewing easy





212-147 -Freezer Thermometer

255 Series - Compact version of the 212 series.

- HACCP reference color zoned dial
- Bimetal coil movement
- Large black pointer makes viewing easy





255-13 -Cooler Thermometer

Storage/Wall Thermometers Specifications

	MOI	DELS
	212	255
Temperature Range	212-146 Cooler Therm: 10° to 80°F	255-12 Freezer Therm: -10° to 80°F
	212-147 Freezer Therm: -10° to 80°F	255-13 Cooler Therm: 10° to 80°F
Accuracy	±2°F	±₂°F
Dial/Lens	12.5" dia	6" dia
Weight	21 OZ	3.1 OZ
Warranty	1 Year	1 Year



Infrared Thermometers & Specifications



Model 412 Gun-Style Infrared with Laser and Thermocouple Jack-

- Point and shoot with instant results
- LCD display with backlight
- FDA Class II laser may be turned on or off
- Single-point laser
- °F/°C switchable
- 7-second display hold
- High and Low alarms
- Max., min., average, differential temp display
- Two in one function
- Distance to spot 11:1
- Type K Mini plug connector
- Lock mode for continuous monitoring for up to 60 minutes
- Adjustable Emissivity
- Accepts Type K probes
- Optional soft carrying case 9339, see page 18

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The DualTemp 480

Infrared and Probe Thermometer measures both surface and internal temperatures.

The 480 uses 1 Lithium Button Cell CR2032 battery with 40 hours typical life, 30 hours minimum COOPER - ATKINS +

The 470 Mini Infrared Non-Contact Thermometer is easy to use. Just aim at the object, press the button, and read the surface temperature in

and read the surface temperature in 1 second or less. The pocket-sized design is very compact and you can use the lanyard to wear it around your neck. Has memory for maximum / minimum values, and lock function for long-term monitoring.



The 460 Infrared Non-Contact Thermometer is easy to use. Just aim at the object, press the button, and read the surface temperature in 1 second or less.



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		MODELS		
	460	470	480	412
Temperature	o° to 525°F	-27° to 428°F	Infrared	Infrared
Range	(-18° to 275°C)	(-33° to 220°C)	-27° to 428°F (-33° to 220°C)	-76° to 932°F (-60° to 500°C
			Probe	Themocouple
			-67° to 626°F (-55° to 330°C)	-83° to 1999°F(-64° to 1400°
Accuracy	±3°F (±2°C)	±3.6°F (±2°C)	Infrared	Infrared
	or 2%	or 2%	±4°F(±2°C), or 2%	±4°F(±2°C), or 2%
	whichever is greater	whichever is greater	whichever is greater	whichever is greater
			Probe	Themocouple
			±2°F(±1°C), or 1%	±2°F (±1°C), or 1%
			whichever is greater	whichever is greater
Resolution	0.5°F	0.1°F, 1°F	0.1°F (0.1°C), 1°F	0.1°F (0.1°C), 1°F/°C
	(0.2°C)	above 200°F	above 200°F	above 200°F
Response	500m/Sec	1 Sec (95% of reading)	1 Sec (95% of reading)	1 Sec (90% of reading)
Time	(95% of reading)			
Ambient	32° to 120°F	32° to 122°F	32° to 122°F	32° to 122°F
Operating	(0° to 50°C)	(0° to 50°C)	(0° to 50°C)	(0° to 50°C)
Range				
Laser	Single Dot	None	None	Single Dot
Relative	10 to 95% RH	10 to 95% RH	10 to 95% RH	10 to 95% RH
Humidity	non-condensing	non-condensing	non-condensing	non-condensing
Storage	-4° to 150°F (-20° to 65°C)	-4° to 122°F (-20° to 50°C)	-4° to 122°F (-20° to 50°C)	-4° to 149°F (-15° to 65°C)
Temperature	without battery	without battery	without battery	without battery
Power	(1) 9 volt battery	(1) Lithium Button cell	(1) Lithium Button cell	(2) 1.5V AAA
	Alkaline or NiCd	3V battery - #CR2032	3V battery - #CR2032	
Battery Life	12 Hours	40 Hours Typical	40 Hours Typical	180 Hours Typical
		30 Hours Minimum	30 Hours Minimum	140 Hours Minimum
Distance	8:1	1:1	1:1	11:1
to Spot (D:S)		-		
Emissivity	Preset at 0.95	Preset at 0.95	0.95 Default, Adjustable from 0.1 to 1.0	Adjustable from 0.1 to 1.0
Weight	8 oz	1.1 OZ	2.6 OZ	6.3 OZ
Dimensions	7.25" X 1.75" X 1.5"	2.67" x 1.44" x 0.75"	6.20" x 1.68" x 0.95"	6.9"x2.8"x1.5"
	(184 x 45 x 38 mm)	(68 x 36 x 19 mm)	(157 x 43 x 24 mm)	(175 x 72 x 38 mm)
Warranty	1 Year	1 Year	1 Year	1 Year

Timers

TFS4 -

The TFS4 Multi-Station Digital Timer is a high performing and durable choice that has 4 different timer mode stations that can be used independently or simultaneously. Its large 4-station LCD (3"x3") and flashing

lights allow for easy viewing. The TFS4 has 4 distinctive alerts with an adjustable volume control that makes it easy to hear from across a large room making it the ideal timer for noisy work environments.

It features color-coded LED with corresponding color coordinated key pad buttons for each station. Its bright

color-coded lights; blue, green, yellow and red, flash when the time has elapsed, at the same time the unit will automatically count up (to 99 hours /59 minutes) when each timer goes off. Non-skid rubber feet or wall mounting keep the timer secured, and its keypad is grease resistant and splash proof. A one-touch START / STOP button is located at the top of the unit for quick and easy operation.

- Switchable Minutes / Seconds or Hours / Minutes
- Recall mode
- Four 1.5v, "C" size, Extra Heavy Duty batteries included



- Timer/Stopwatch
- 18" nylon neck cord
- Recall feature, returns
- 99 minute, 59 second counter/timer



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The FT24 timer has both a visual and audio alarm. The audio alarm has a volume control. The FT24 automatically counts upwards once the time set has elapsed, letting you know how long it has been since the timer went off. A one-touch start/stop button is conveniently located on the top of the unit.

- Volume controlled alarm
- Oversized LCD
- Red light flashes when alarm sounds
- Splash-proof keypad
- Built-in memory for repeat cycle timing
- Measures 7" H x 6" W x 4" D
- Uses 4 "C" size batteries

TM60 - Long-Ring 60 Minute Timer. Sturdy molded case with non-skid feet and easy to read dial.



- Features
- One-handed operation
- Bell rings for 7 8 seconds
- Easy to read numerals
- Non-skid feet
- Sturdy molded case



Timers - Continued

TC6 - Electronic Timer / Clock / Stopwatch with memory recall and splash-proof case. Comes with an easel stand, clip-on, or magnet mount. A convenient wire hanger is included.



- Large, easy-to-read LCD display
- Counts up or down
- 1.5v, AAA alkaline battery included

TW₃ - Waterproof Digital Timer has programmable Double Time with switchable, Hours: Minutes or Minutes: Seconds, and counts up or down.



- Waterproof case can be submerged 1 meter for 1 hour
- Back stand and magnet
- Large, easy-to-read LCD
- Simple 3 Button Operation
- 1.5v, AAA alkaline battery included

Refrigerator / Freezer Thermometers

Super Value

Twin2Pack

Offers two 335

Thermometers

NSF

29

in 1 package (°F/°C).

335-01-2

25HP - Dial Thermometer

- -20° to 80°F / -30° to 30°C
- ±2°F/±1°C
- Sturdy stainless steel construction
- Includes dry storage range
- Hangs or stands



335 - Horizontal Tube Thermometer

- -40° to 80°F / -40° to 25°C
- ±2°F/±1°C
- Magnifying lens
- Hangs, stands, or permanently mounts
- 5" / 12.7cm Non-toxic, spirit-filled glass tube

"C +40 -30 -20 -10 0 10 20 Coores 40-30-20-10 0 10 20 Circle

40 -20 0 20 4 40 50 80 **

Stainless Steel casing

C-40-30-20-10 0 10 20 G

0 20 4 40 60 80



SuperValue Combo4Pack

Offers two 25HP-01

CP101-0-8

& two 1246-02

Thermometers in 1 package.

CP101-C-8 Available in °C.

Super Value Twin2Pack 25HP-01-2 Offers two 25HP-01

Thermometers in 1 package. 25HP-01C-2 Available in °C.



Thermometer



535 - Dial Thermometer

- -20° to 120°F / -30° to 50°C
- ±5°F/±2°C
- 1.5" / 3.8 cm Diameter
- Magnetic back
- Self-adhesive tabs for permanent mounting



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- 330 Vertical Tube
- -40° to 120°F / -40° to 50°C
- ±2°F/±1°C
- Lightweight design
- Durable plastic casing
- 3" / 7.6 cm Non-toxic, spirit-filled glass tube





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Foodservice Division: Industrial is not our only specialty. We also provide a wide array of HACCP and Foodservice products. To request a copy of the Cooper-Atkins Foodservice Catalog call our headquarters.

Customization: Cooper-Atkins Corporation is known for offering exceptional service and innovative quality products. We provide solutions tailored to the needs of your business. We private label many of our thermometers and packaging to meet our customers requirements. For more information about this special service please contact your distributor, representative or our headquarters.



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