



**Mastercool**<sup>®</sup> Inc.  
"World Class Quality"

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## THERMOMETERS

### 52224-A INFRARED THERMOMETER W/LASER

The 52224-A offers laser targeting accuracy, enhanced backlit LCD Display and an expanded temperature range. The compact design is simple to use and easy to store.  
**Temperature Range:** -58°F to 932°F (-50°C to 500°C)  
**Field of View:** 12 : 1

### 52224-C INFRARED THERMOMETER WITH DUAL LASER

Features both infrared and dual laser technologies.  
**Temperature Range:** -76 to 1022°F (-60 to 550°C)  
**Field Of View:** 12 : 1



### 52225-A DUAL TEMP PLUS INFRARED THERMOMETER

Features both infrared and contact thermometer technologies. Includes programmable HI/LO alarms and Lock Mode to capture temperature readings. The contact function offers a built-in K type jack and wire thermocouple.  
**Non-Contact Temperature Range:** -76 to 1400°F (-60 to 760°C)  
**Field of View:** 30 : 1

### 52225-B ULTRA TEMP DUAL LASER THERMOMETER

Features both infrared and contact thermometer technologies. Includes programmable HI/LO alarms, and Lock Mode to capture temperature readings. The built-in K type jack offers optional contact functions. Illuminates working area with built-in LED light.  
**Non-Contact Temperature Range:** -76 to 1832°F (-60 to 1000°C)  
**Field of View:** 50 : 1



### SPECIFICATIONS:

Model #	52224-A	52224-C	52225-A	52225-B
<b>Non-Contact Temperature Range:</b>	-50 to 500°C (-58 to 932°F)	-60 to 550°C (-76 to 1022°F)	-60 to 760°C (-76 to 1400°F)	-60 to 1000°C (-76 to 1832°F)
<b>Thermocouple Temperature Range:</b>	-64 to 1400°C (-83 to 1999°F)			
<b>Field of View:</b>	12 : 1		30 : 1	50 : 1
<b>Display Illumination:</b>	Backlit LCD Color Display		Backlit LCD display	
<b>Target Indicator:</b>	Single Laser Spot	Dual Laser Spot	Single Laser Spot	Dual Laser Spot
<b>Emissivity:</b>	0.98	0.95	0.10 (10E) to 1.0 (100E)	0.95
<b>Resolution:</b>	0.5°F / 0.5°C		0.1°F / 0.1°C	
<b>Modes:</b>			MIN, MAX, DIFF & AVG	
<b>Accuracy:</b>	±2°C (4°F) or ±2% of reading		±2% of reading	
<b>Response Time:</b>	0.5 seconds		1 second	
<b>Power Off:</b>	Automatic after 15 seconds			
<b>Battery Life:</b>	14 hrs.	14 hrs.	14 hrs.	14 hrs.
<b>Included Accessories:</b>	2 AAA batteries, instruction manual, plastic molded carrying case		2 AAA batteries, 1m thermocouple probe, instruction manual, plastic molded carrying case	
<b>Optional Accessories:</b>			3m Wire Thermocouple Probe, Piercing Penetration Probe, Surface Probe, Air Probe	
			1m, 3m Wire Thermocouple Probes, Piercing Penetration Probe, Surface Probe, Air Probe, Removable Magnetic Base	

All thermometers include pocket holder and clip.

### POCKET ANALOG DESIGNS

Item#	Dial Size	Temperature Scale
52220-C	25mm	-10 to 100°C
52161	35mm	-40 to 70°C (-40 to 160°F)
91120	44.5mm	17 to 104°C (0 to 220°F)

### POCKET DIGITAL DESIGN

Item#	Dial Size	Temperature Scale
52223-A	25mm	-50 to 150°C (-58 to 302°F)

Battery operated (1.5V, life of 5000 hours), (on/off and auto shut-off after 10 minutes)



### 52226 DUAL TEMP INFRARED/PROBE THERMOMETER

The 52226 Dual Temp Thermometer offers both infrared and contact probe technologies.

- Infrared Temp Range: -67 to 428°F (-55 to 220°C)
- Probe Temp Range: -67 to 626°F (-55 to 330°C)
- Field of View Ratio 1 : 1
- Adjustable Emissivity
- Lock Mode for hands free scanning
- Minimum/Maximum capture mode
- Contact Probe locks safely on the side of the unit



### 52227 POCKET INFRARED THERMOMETER

The 52227 Pocket Infrared Thermometer offers accurate non-contact temperature measurement in a compact and easy to use size.

- Temp Range: -67 to 428°F (-55 to 220°C)
- Field of View Ratio 1 : 1
- Adjustable Emissivity
- Backlit LCD Display
- Minimum/Maximum capture mode

### 52229 HANDHELD WATERPROOF DIGITAL THERMOMETER

- Measuring Range: -58 to 572°F / -50 to 300°C
- Wide Measurement Range
- Maximum/Minimum temperature memory
- Celsius and Fahrenheit exchange
- Data hold function
- High/Low temperature alarm setting
- Key tone for operation confirmation
- Stainless steel probe
- Foldaway stand



### 52228 DIGITAL DIFFERENTIAL THERMOMETER

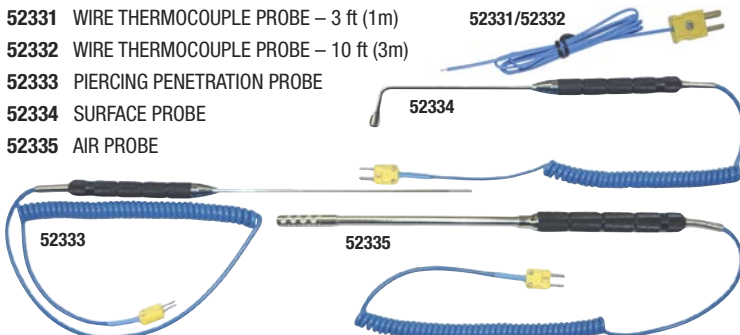
The 52228 Digital Differential Thermometer provides instant measurements of TWO points. (T1, T2) and T1 - T2.

- Max Hold Function
- Data Hold Function
- Temperature in °F or °C
- AUX Output Jacks
- T1 - T2 Differential
- Temp. Range: -50 to 1999°F (-50 to 1300°C)
- Type K Thermocouple Input
- Resolution: 1°F (1°C)
- Includes two 3 ft (1m) Thermocouple Probes



### OPTIONAL PROBES

- 52331 WIRE THERMOCOUPLE PROBE - 3 ft (1m)
- 52332 WIRE THERMOCOUPLE PROBE - 10 ft (3m)
- 52333 PIERCING PENETRATION PROBE
- 52334 SURFACE PROBE
- 52335 AIR PROBE



### 52245 DIGITAL PRESSURE/TEMPERATURE CHART

The Mastercool 52245 is a compact Digital Pressure Temperature Chart. This pocket sized device offers fast and accurate temperature references on a large easy to read LCD display. The automatic power down feature shuts the unit OFF five minutes after the last command to insure extended battery life. Temperature Range: -40 to 200°F (-40 to 103°C)

Includes 61 refrigerants: R11, R12, R13, R21, R22, R23, R32, R113, R114, R115, R116, R123, R124, R125, R134, R134a, R141B, R142B, R143, R143A, R152A, R218, R290, R176, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R501, R502, R503, R504, R507, R508B, R509A, R600, R600A, R601, R601A, R717, R744.

Pressure readings are available in PSI, BAR and MPa. Temperature readings are available in Fahrenheit or Celsius. Battery is included.

- Fast & Easy to Use
- Compact Pocket Size
- Large LCD Display
- Auto Shut-Off

