

# 4600 Precision Thermometer



- Thermometer accuracy  $\pm 0.015^{\circ}\text{C}$  from  $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$
- System accuracy  $\pm 0.115^{\circ}\text{C}$  from  $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  when used with 400-series probes
- $^{\circ}\text{C}$  or  $^{\circ}\text{F}$  readout
- RS-232 communication capability

## DESCRIPTION

High precision thermometer for use with 400-series thermistor probes.

## FEATURES

- 400-series probe input
- RS-232 communication capability
- $^{\circ}\text{C}$  or  $^{\circ}\text{F}$  readout

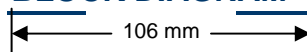
## APPLICATIONS

- Laboratory measurements

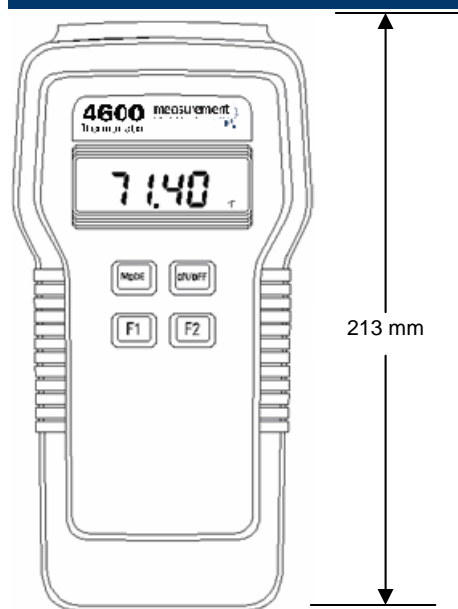
## PERFORMANCE SPECS

Parameter		Units	Value
Instrument Accuracy	@ $-40^{\circ}\text{C}$	$\pm^{\circ}\text{C}$	0.100
	$0^{\circ}\text{C}$ to $50^{\circ}\text{C}$	$\pm^{\circ}\text{C}$	0.015
	@ $+70^{\circ}\text{C}$	$\pm^{\circ}\text{C}$	0.025
	@ $+100^{\circ}\text{C}$	$\pm^{\circ}\text{C}$	0.065
	@ $+150^{\circ}\text{C}$	$\pm^{\circ}\text{C}$	0.320
<b>Note:</b> Add interchangeability accuracy of 400 Series probes for total system accuracy. ( $\pm 0.40^{\circ}\text{C}$ @ $-40^{\circ}\text{C}$ ; $\pm 0.10^{\circ}\text{C}$ from $0^{\circ}$ to $70^{\circ}\text{C}$ ; $\pm 0.21^{\circ}$ @ $100^{\circ}\text{C}$ ; $\pm 0.40$ @ $150^{\circ}\text{C}$ )			
Resolution:	$-40^{\circ}$ to $+100^{\circ}\text{C}$	$^{\circ}\text{C}$	0.01
	$+102^{\circ}$ to $+150^{\circ}\text{C}$	$^{\circ}\text{C}$	0.02
Repeatability ( $-20^{\circ}$ to $+100^{\circ}\text{C}$ ) typical for 1 week at constant ambient temperature		$^{\circ}\text{C}$	0.0002 to .001
Reading Rate per Second			2
Battery Life		Hours	20
Operating Conditions		$^{\circ}\text{C}$	10 to 40
		% RH	85

## BLOCK DIAGRAM



# 4600 Precision Thermometer



## ORDERING INFORMATION

Part Number	Description	Probes	MOQ
046002	4600 Precision Thermometer	400 Series	3

\* For quantities less than Minimum Order Quantity – contact distribution

### NORTH AMERICA

Measurement Specialties, Inc.  
910 Turnpike Road  
Shrewsbury, MA 01545  
Tel: 1-508-842-0516  
Fax: 1-508-842-0342

Sales email:  
[temperature.sales.amer@meas-spec.com](mailto:temperature.sales.amer@meas-spec.com)

### EUROPE

Measurement Specialties, Inc.  
Ballybrit Business Park  
Galway Ireland  
Tel: +353-91-753238  
Fax: +353-91-770789

Sales email:  
[temperature.sales.emea@meas-spec.com](mailto:temperature.sales.emea@meas-spec.com)

### ASIA

Measurement Specialties (China) Ltd.  
No. 26 Langshan Road  
Shenzhen High-Tech Park (North)  
Nanshan District, Shenzhen 51807  
China  
Tel: +86 (0) 755 33305088  
Fax: +86 (0) 755 33305099

Sales email:  
[temperature.sales.asia@meas-spec.com](mailto:temperature.sales.asia@meas-spec.com)

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