



FEATURES

- iProbe Temperature Sensors
- Accuracy $\pm 0.005(T-25^{\circ}\text{C})$ or $.007^{\circ}\text{C}$, whichever is greater
- Battery Operation
- Local and Remote Network Operation
- Real Time Data Logging
- -40°C to 175°C Temperature Range Available
- 0.133" or 0.084" Probe Diameters
- Multi-Function Netbook Computer

OVERVIEW

The SBIR Model 104i High Resolution Differential Thermometer provides high accuracy temperature measurement without sacrificing ease of use. Two ultra-stable iProbe temperature sensors are included allowing the instrument to simultaneously display the absolute temperature of two points and also the temperature difference between these two points. Additionally, the 104i thermometer offers four temperature ranges from -40°C to 175°C absolute.

The 104i ships with a CD containing a remote client application program with the same user interface as that visible on the 104i's netbook screen. This software can be installed on any PC linked to the same Ethernet network as SBIR's 104i. The model 104i is suitable both for general-purpose thermometry and for specialized applications such as the calibration of Santa Barbara Infrared's legacy 2000, 2100 and 2600 Series blackbody sources and the Infinity Series blackbody sources.

Solutions

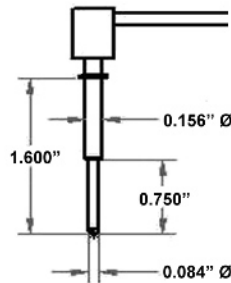
for Every EO Test Requirement

30 S. Calle Cesar Chavez, Suite D • Santa Barbara, Ca. 93103
ph (805) 965-3669 • fax (805) 963-3858 • <http://www.sbir.com>

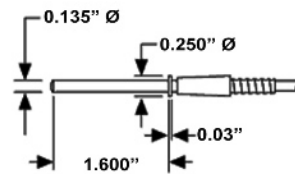
SPECIFICATIONS

Display Resolution.....	0.0001°C
Accuracy.....	±0.005 (T-25°C) or 0.007°C, whichever is greater
Stability.....	0.00025 (-40°C to 0°C), 0.0001°C (0°C to 50°C), 0.00025°C (50°C to 100°C), 0.0005°C (100°C to 125°C), 0.001°C (125°C to 175°C)
Temperature Range A.....	0°C to 100°C
Optional Range B.....	0°C to 175°C
Optional Range C.....	-40°C to 100°C
Optional Range D.....	-40°C to 175°C
Temperature Sensors.....	Reference Grade Thermistors
Interface Options.....	GPIO, Ethernet
iProbe Cable Length.....	5 ft.
iProbe Extension Cables.....	Available in Various Lengths
Approximate Dimensions.....	11.00" x 8.00" x 3.13"
Approximate Weight.....	7.50 lbs.
Line Voltage.....	Selectable 100/120/220/240V, 50/60Hz

PROBE DIMENSIONS



iProbe Dimensions



Legacy Probe Dimensions

ORDER INFORMATION

Please contact the SBIR sales team at (805) 965-3669 to ensure proper part number and to receive a quotation.

* Specifications are subject to change without prior notice



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