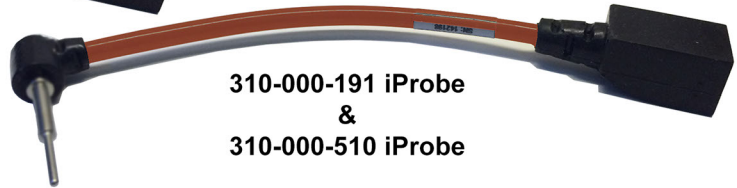




310-000-190 iProbe
 &
 310-000-202 iProbe



310-000-191 iProbe
 &
 310-000-510 iProbe

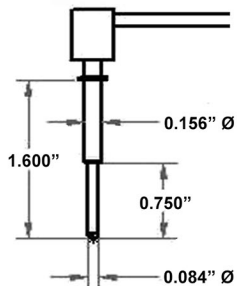
FEATURES

- ⊕ -40°C to 175°C Temperature Range Available
- ⊕ Accuracy $\pm 0.0005(T-25^\circ\text{C})$ or $.010^\circ\text{C}$, whichever is greater
- ⊕ Reference Grade Thermistors
- ⊕ Stability of 0.0001°C (0°C to 50°C)
- ⊕ Onboard Flash Memory for Independent Storage of Cal Constants and Cal Date Information
- ⊕ 0.133" or 0.084" Probe Diameters
- ⊕ Sensor Extension Cables Available in Various Lengths

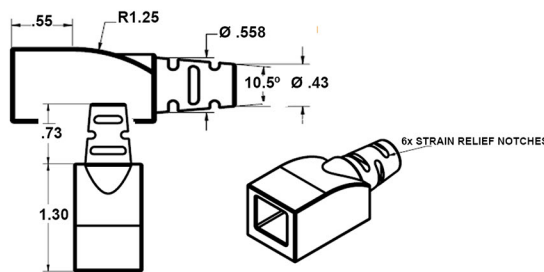
OVERVIEW

The iProbe is an intelligent temperature sensor that can be calibrated independently of SBIR's blackbody systems or 104i precision thermometers. These ultra-stable, highly responsive iProbes are used to provide long term accuracy and repeatability of under 0.010°C . Each iProbe incorporates onboard flash memory that allows all calibration constants and calibration date information to be stored independently of the blackbody or thermometer system. This allows iProbes to be exchanged for use on a blackbody or thermometer without any loss in stability or accuracy. To re-calibrate a system you need only exchange the current iProbe with a recently calibrated one. No special equipment is required and there is no down time in the test area.

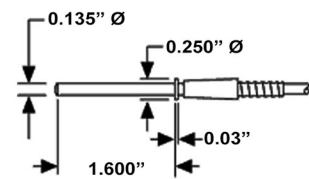
PROBE DIMENSIONS



Thin Tip Dimensions



Overmold Dimensions

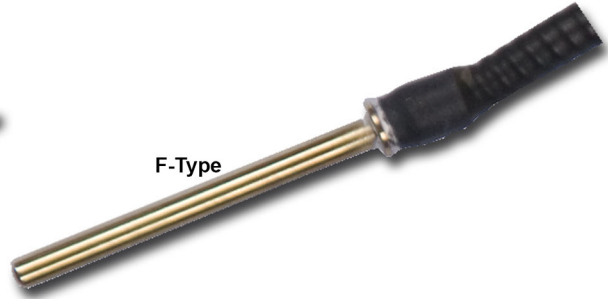


Fat Tip Dimensions

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 for T-Type Probes

Display Resolution.....	0.0001°C
Accuracy	±0.0005 (T-25°C) or 0.01°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 (310-000-190).....	0°C to 100°C
Optional Range B (310-000-191).....	0°C to 175°C
Optional Range C (310-000-202).....	-40°C to 100°C
Optional Range D (310-000-510).....	-40°C to 175°C
Temperature Sensors.....	Reference Grade Thermistors
iProbe Cable Length.....	Available in Various Lengths

SPECIFICATIONS for F-Type Probes

Display Resolution.....	0.0001°C
Accuracy	±0.001 (T-25°C) or 0.01°C, whichever is greater
Stability	± 0.003° short term, ±0.01°C long term
Temperature Range A (310-000-172).....	0°C to 100°C
Temperature Sensors.....	Reference Grade Thermistors
iProbe Cable Length.....	Available in Various Lengths

ORDER INFORMATION

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

* Specifications are subject to change without prior notice

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