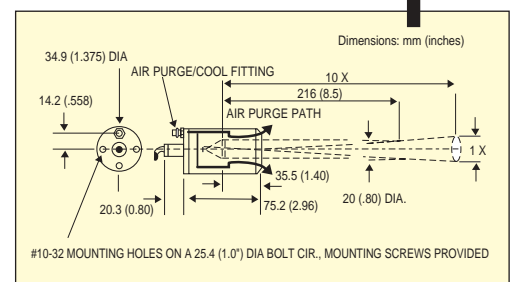
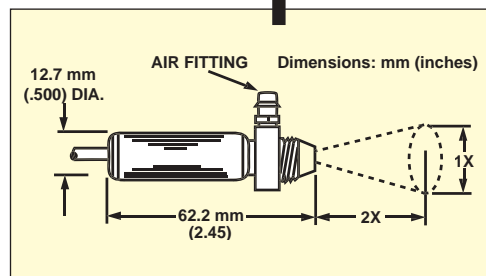
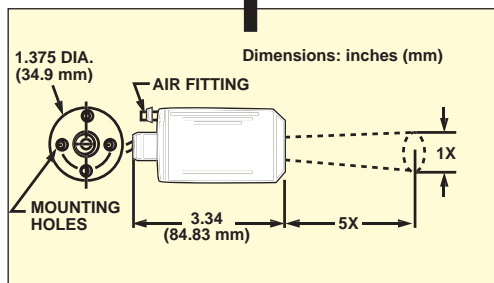
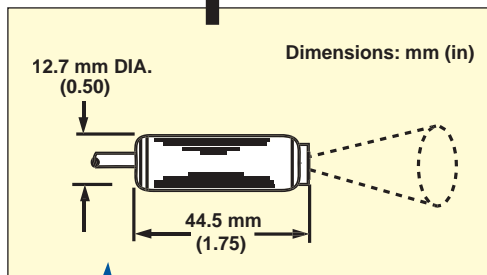


OS36 Series Infrared Thermocouples



- ✓ No Thermal Mass Errors
- ✓ No Moving Parts
- ✓ Self-Powered with No Internal or External Power Requirements
- ✓ No Frictional Heat Errors for Moving Surfaces
- ✓ Temperature Compensated
- ✓ Use with Standard Thermocouple Indicators and Controllers

The unique OS36 IR t/c™ brings together the economical thermocouple with the advantages of non-contact temperature measurement. The OS36 produces a thermocouple output signal that can be used with any standard J, K, T or E thermocouple instrumentation. The thermocouple's accuracy is specified for target emissivity of 0.9. For other emissivity values, readings can be corrected to provide accurate measurements. Even without correction, the readings are extremely repeatable, for use in process and quality control applications.



The DP41 thermocouple indicator is a high accuracy meter, with 0.01° resolution, with available computer interface and analogue/digital outputs. See section S for details.



The HMM2 high performance DMM thermometer has voice annunciation of measured values. See page H-5 for details



Specifications

Accuracy: $\pm 2\%$ of nominal range;

black body source

Repeatability: $\pm 1\%$ rdg

Temperature Coefficient:

$\pm 0.02\%$ nominal range per $^{\circ}\text{F}$

Temperature Compensation Range:

Complies with ASTM standards

over 27 to 93 $^{\circ}\text{C}$ (80 to 200 $^{\circ}\text{F}$) range

Operating Ambient Temperature Range:

-18 to 85 $^{\circ}\text{C}$ (0 to 185 $^{\circ}\text{F}$) with internal

cold junction compensation

Ambient Temperature Compensation:

Internal temperature cold junction compensation

up to 538 $^{\circ}\text{C}$ (water-cooled), 400 $^{\circ}\text{C}$ (air-cooled),

with cooling jacket option model OS36-APC

Storage Temperature Range:

-45 to 121 $^{\circ}\text{C}$ (-50 to 250 $^{\circ}\text{F}$)

Output Impedance: 3k Ω

Response Time: 80 msec

Range Chart

Range Code	Temperature Range (2% accuracy)
50F	-18 to 27 $^{\circ}\text{C}$ /0 to 80 $^{\circ}\text{F}$
80F	10 to 49 $^{\circ}\text{C}$ /50 to 120 $^{\circ}\text{F}$ *
98.6F	16 to 39 $^{\circ}\text{C}$ /60 to 102 $^{\circ}\text{F}$ *
140F	25 to 80 $^{\circ}\text{C}$ /80 to 180 $^{\circ}\text{F}$ *
180F	70 to 104 $^{\circ}\text{C}$ /160 to 220 $^{\circ}\text{F}$ *
240F	95 to 130 $^{\circ}\text{C}$ /200 to 270 $^{\circ}\text{F}$ *
280F	125 to 155 $^{\circ}\text{C}$ /260 to 310 $^{\circ}\text{F}$ *
340F	145 to 175 $^{\circ}\text{C}$ /290 to 350 $^{\circ}\text{F}$ *
440F	170 to 250 $^{\circ}\text{C}$ /340 to 480 $^{\circ}\text{F}$ *

Buy the Complete OS36 Kit with the 6 indicated * ranges and SAVE £82

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No. [†]	Price	Description
OS36-J-(*)	£152	J Thermocouple
OS36-K-(*)	152	K Thermocouple
OS36-T-(*)	152	T Thermocouple
OS36-E-(*)	152	E Thermocouple
OS36-(#)-KIT (Save £82!)	830	Six (6) unit kit, includes one of each temperature range
OS36-MB	20.50	Mounting bracket
OS36-MR	33	Mounting ring
OS36-APC	245	Cooling jacket

* Specify temperature range code from range chart at right.

#Specify calibration, J,K,E,T. **Note:** Kit includes one unit each of the most popular ranges (6 total) of one thermocouple calibration.

Note: standard unit configuration is stripped leads. To order with GMP subminiature low-noise thermocouple connector pair, add suffix "GMP-IEC" to model no., and add £9.80 to price. To order with GST standard size low-noise thermocouple connector pair, add suffix "GST-IEC" to model no., and add £9.80 to price.

Ordering Example: OS36-J-140F-GMP-IEC IR t/c sensor, type J, with 80 to 180 $^{\circ}\text{F}$ range, GMP low-noise subminiature connector, £152 + 9.80 = £161.80.

†Right Angle Models

To order with right angle view, for use in difficult to view applications change model no. from "OS36"

to "OS36-RA", and add £21.25 to price.

Ordering Example: OS36-RA-K-240F IR t/c, type K, 95 to 130 $^{\circ}\text{C}$ range, right angle view, stripped lead termination, £152 + 21.25 = £173.25.

OS36 Series

£152

Spectral Response:

6.5 to 14 microns

Field of View: 60°;

specified accuracy for target distances up to 0.5"

Dimensions:

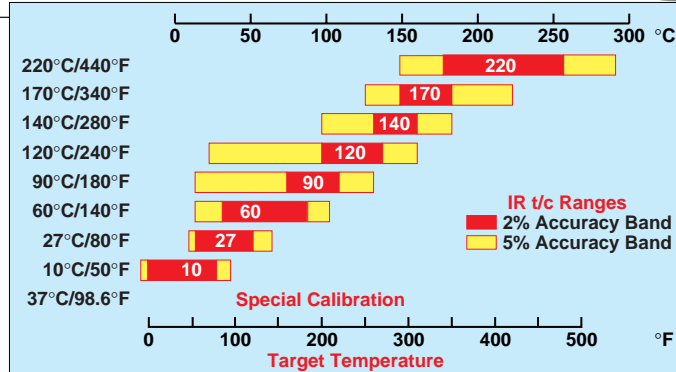
4.45 L x 1.27 cm Dia.

(1.75" x 0.5"); 2.4 m (8')

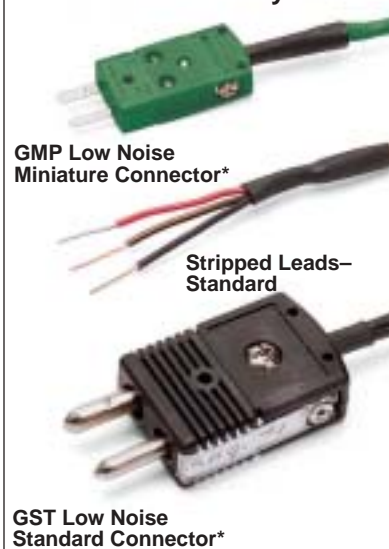
Teflon coated lead wires

Housing: Stainless steel with silicon window, hermetically encapsulated

Weight: 15 g (0.5 oz) head only



Termination Styles



Both the GMP and GST termination styles include the mating connector.

H