

Compact Infrared Thermocouple

35° Field of View and Air Purge Head

OS36-2 Series



- ✓ Infrared Thermocouple Workhorse
- ✓ 35° (2:1) Field of View
- ✓ Built-In Air Purge
- ✓ J, K, E, or T Thermocouple Output Signal
- ✓ Self-Powered
- ✓ Temperature Compensated

The small size and built-in features of the OS36-2 make it ideal for infrared monitoring tasks. The narrow 35° field of view and small aperture allow small-target measurements of up to 4 mm (0.16"). The threaded head securely mounts through a bulkhead or threads into a tapped hole. The internal air purge passages provide a convenient and highly efficient method of maintaining optical cleanliness in harsh environments.

Specifications

Range: -45 to 1150°C (-50 to 2000°F)
See range chart for linear ranges. Measurement is practical beyond thermocouple table values by use of radiation laws. Polynomials available upon request.

Field of View: 35° (2:1)

Minimum Spot Size: 4 mm (0.16")

Operating Ambient Temperature Range: -18 to 85°C (0 to 185°F)

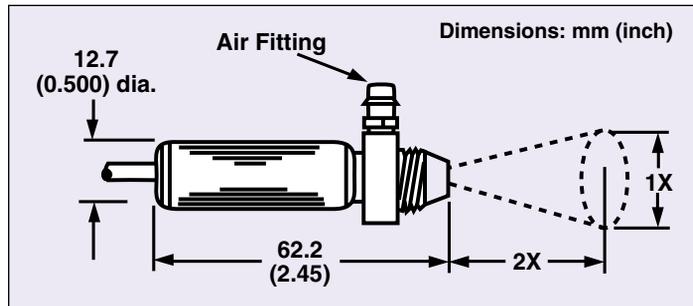
Air Purge: Built-in flow for operation at temperatures of -18 to 116°C (0 to 240°F)

Ambient Temperature Compensation: Internal temperature cold junction compensation up to 538°C (1000°F) water-cooled, 400°C (750°F) air-cooled; cooling jacket optional (model OS36-SPC)

Output Impedance: 4 to 8 kΩ (varies by model)

Dimensions: 6.22 L x 1.27 cm diameter (2.45 x 0.5"); 0.9 m (36") PFA coated lead wires

Weight: 44 g (1.6 oz) with cable



Air Purge Standard.

OS36-2-J-140F shown actual size.



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

Range Chart

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

To Order Visit omega.com/os36-2 for Pricing and Details

Model No.**	Description
OS36-2-J-(*)	Type J thermocouple
OS36-2-K-(*)	Type K thermocouple
OS36-2-T-(*)	Type T thermocouple
OS36-2-E-(*)	Type E thermocouple
OS36-APC	Cooling jacket

* Specify temperature range code from range chart.

Comes complete with operator's manual.

Note: Stripped leads are standard. To order with GMP subminiature low-noise thermocouple connector pair, add suffix "-GMP" to model number for an additional cost. To order with GST standard-size low-noise thermocouple connector pair, add suffix "-GST" to model number for an additional cost.

Ordering Examples: OS36-2-K-140F-GMP, infrared thermocouple sensor Type K, with 25 to 80°C (80 to 180°F) range, GMP low-noise subminiature connectors.

OS36-2-J-240F, infrared thermocouple sensor Type J, with 95 to 130°C (200 to 270°F) range.

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years.

**Right-Angle Models

To order with right-angle view, for use in difficult-to-view applications, change model number from "OS36-2" to "OS36-2-RA" for an additional cost.

Ordering Example: OS36-2-RA-K-240F, infrared thermocouple, Type K, 95 to 130°C (200 to 270°F) range, right-angle view, stripped lead termination.

