

Compact Infrared Thermocouple

35° Field of View and Air Purge Head

OS36-2 Series

\$355

All Models



Air Purge
Standard.

OS36-2-J-140F,
\$355, shown
actual size.

- ✓ 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 Dia. (2.45 x 0.5"); 0.9 m (36") PFA coated lead wires


Weight: 44 g (1.6 oz) with cable

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)

☐ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

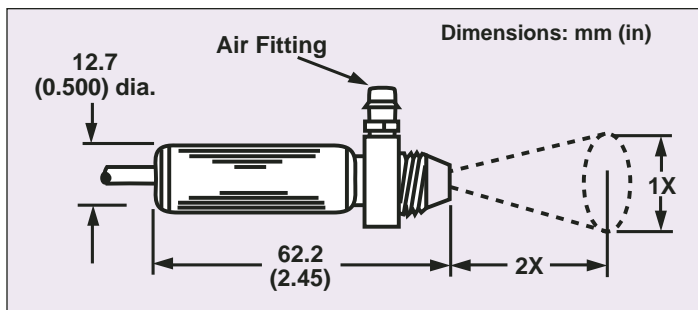
Model No.**	Price	Description
OS36-2-J-(*)	\$355	Type J thermocouple
OS36-2-K-(*)	355	Type K thermocouple
OS36-2-T-(*)	355	Type T thermocouple
OS36-2-E-(*)	355	Type E thermocouple
OS36-APC	439	Cooling jacket
CS-3657	50	Reference Book: Automating Science and Engineering Laboratories with Visual Basics 

* 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 and add \$12 to price. To order with GST standard-size low-noise thermocouple connector pair, add suffix "-GST" to model number and add \$12 to price.

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, \$355 + 12 = **\$367**.

OS36-2-J-240F, infrared thermocouple sensor Type J, with 95 to 130°C (200 to 270°F) range = **\$355**.



**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" and add \$64 to price.

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, \$355 + 64 = **\$419**.



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