

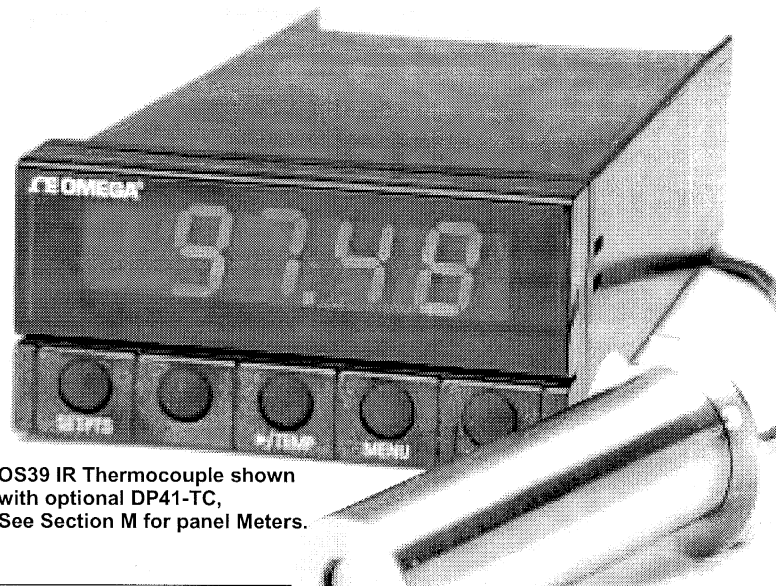
Low Cost Infrared Thermocouple

OS39 Series
\$225
 Basic Unit



- ✓ Low Cost
- ✓ -20 to 300°C (-4 to 570°F)
- ✓ J, K or mV Output
- ✓ Low Output Impedence
- ✓ No Moving Parts
- ✓ Temperature Compensated
- ✓ Optional Air Purge

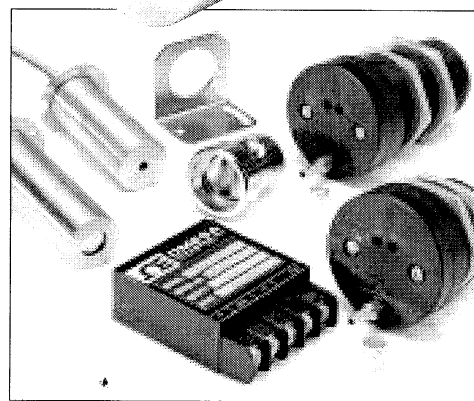
The small size and low cost of the OS39 Series infrared thermocouples makes them a natural choice for a variety of non-contact temperature measuring applications. They have a wide measuring range of -20 to 300°C (-4 to 570°F) with a full scale accuracy of 1.5% and 0.25% full scale repeatability. Available output types are 10 mV/degree, J and K thermocouple. The low output impedance of less than 10 ohms makes these units compatible with standard temperature meters and controllers, avoiding offsets in temperature readings due to large impedance outputs which is inherent in other infrared thermocouples. These revolutionary low cost units make them ideal choices for multiple target measurement such as in paper and plastic production, printing process applications and textile finishing. The optional air purge/cooling jacket allows the sensor to be at an ambient temperature of 150°C (300°F) while at the same time keeping the optics clean from dirt, dust, and protected from vibrations and rapid ambient temperature changes. The jacket uses an air flow of only 90 cfm (2.5 cmh) of clean air for operation.



OS39 IR Thermocouple shown with optional DP41-TC, See Section M for panel Meters.

Specifications

Temperature Range:
 -20 to 300°C (0 to 570°F)
Accuracy: 1.5% full scale (Target Emissivity of .95)
Repeatability: 0.25% full scale
Resolution: 0.1% full scale
Spectral Response:
 6.5 to 14 microns
Emissivity: 0.95 fixed
Response Time: 400 milliseconds
Output Impedence:
 <10 ohms
Power Supply Voltage: 7 to 24 Vdc
Operating Temperature:
 0 to 60°C (32 to 142°F) without cooling jacket; 0 to 200°C (32 to 392°F) with cooling jacket
Relative Humidity:
 100% non-condensing
Output Cable: 2x2 conductor shielded cable with 40" long. Rated at 125°C (260°F)



Storage Ambient:
 -60 to 90°C (176 to 194°F)
Vibration: 4 g's any axis continuous
Shock: 50 g's
Housing: Stainless steel, dust and splash proof, NEMA 4X
Weight: 85 grams (3 oz.)

To Order (Specify Model No.)

Model No.	Price	Description
OS39-MVC-6	\$375	10mV/C output
OS39-MVF-6	375	10mV/F output
OS39-J-6	345	Type J thermocouple output
OS39-K-6	345	Type K thermocouple output

OS39 is supplied with complete operator's manual

Ordering Example: OS39-J-6 Infrared thermocouple sensor with Type J thermocouple output, 6:1 optics, \$345.

Accessories

To Order (Specify Model No.)

Model No.	Price	Description
OS39-APC-2	\$ 80	Air purge/cooling jacket
OS39-RAVM	185	Right angle Viewing Mirror
OS39-PS-110V	60	+15Vdc 20mA power supply, 110Vac input
OS39-PS-220V	60	+15Vdc 20mA power supply, 220Vac input
OS39-MB	20	Mounting Bracket