Smart-Micro IR T/C

OS35RS Series

- ✔ **Non-Contact Plug and Play Temperature Measurement**
- ✔ **No Impedance, Leakage Current, or Linearity Problems to Worry About**
- ✔ **Sensor Head is Remote and without Air Purge Can be Used in Ambient Temperatures to 100°C (212°F) and with Small Sized Air Purge Jacket Can be Cooled to 177°C (350°F)**
- ✔ **Sensor Heads are the Smallest Sized in the Market (0.25" Diameter)**
- ✔ **Precision with Changes in Sensor Head Ambient**
- ✔ **All Digital System**

The smallest sized IR temperature sensor in the world now has brains. By combining the OS36-SM sensor head with the OS35 platform, precision in small places is now a reality. The OS35 processes the signal from the microIRt/c, linearizes, and gives an analog output (4 to 20 mA, 0 to 5V, 0 to 10V). Accuracy holds with changes in ambient from -45 to 100°C (-49 to 212°F) with no drifting. Four sensor heads with 1:2 and 4:1 optics, straight and side view mounting, built in air purge [cool to 120°C (248°F)] air purge jackets [cool to 175°C (347°F)] and mounting brackets are available.
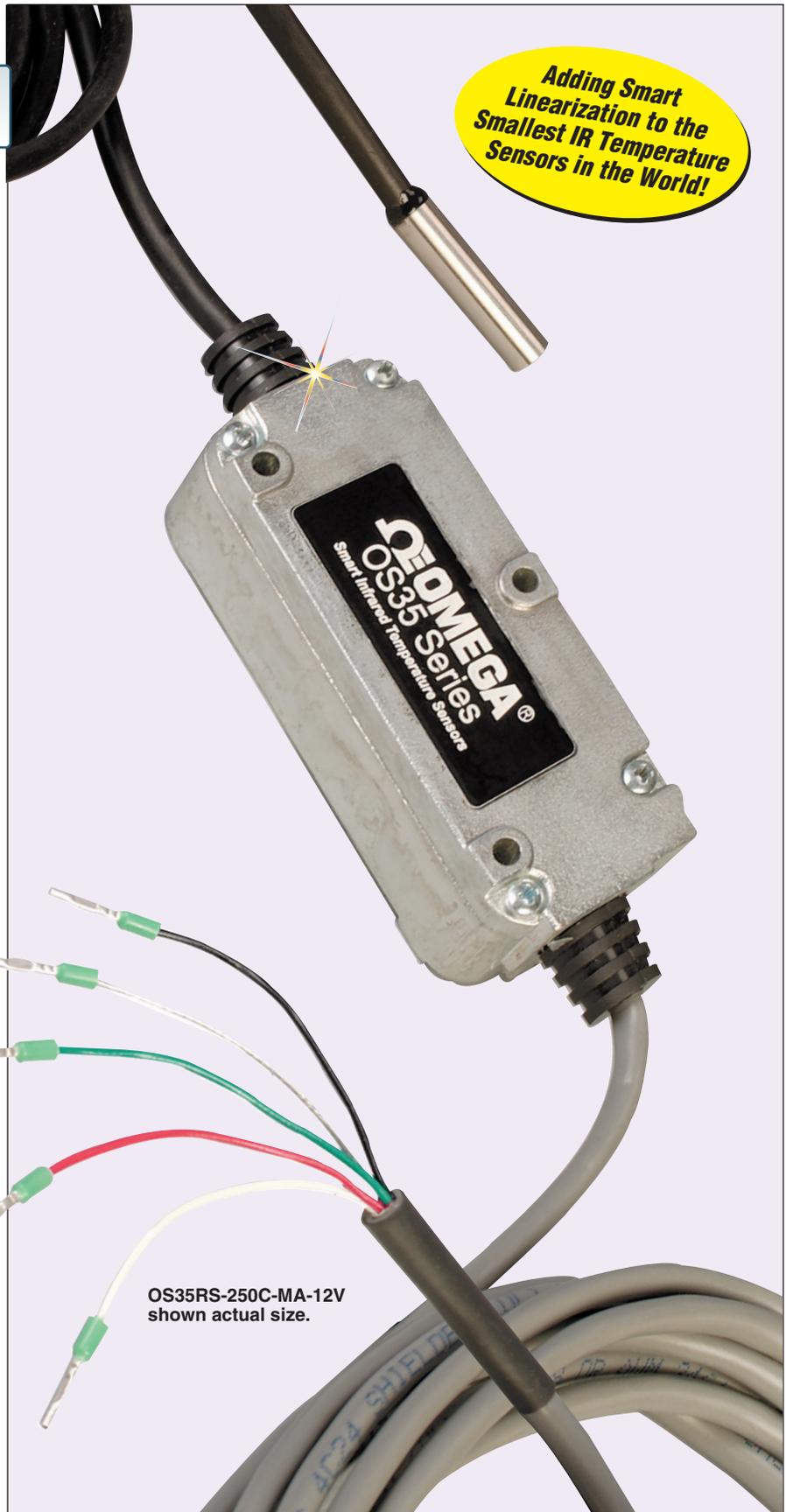
Adding Smart Linearization to the Smallest IR Temperature Sensors in the World!

OS35RS-250C-MA-12V shown actual size.

Specifications
Dimensions:
   Transmitter: 92 x 34.9 x 19.4 mm (3.6 x 1.3 x 0.76")
   Sensor: 25.4 x 6.3 mm Dia (1 x 0.25")
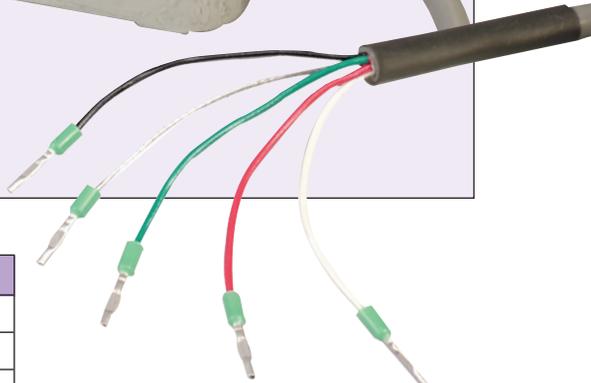**Weight of Transmitter and Sensor:** 227 g (10 oz)

OS35RS-4-100G-MA-12V
shown smaller
than actual size.

Temperature Range Table (Table 1)

Temperature Code	Temperature Range
100°C (212°F)	0 to 100°C (32 to 212°F)
250°C (482°F)	0 to 250°C (32 to 482°F)
70°C (158°F)	-30 to 70°C (-22 to 158°F)
500°C (932°F) (*)	0 to 500°C (32 to 932°F)

(*) This temperature range is only available with models of 4:1 FOV.

Output Options Table (Table 2)

Output Suffix	Output Type
MA	4 to 20 mA
V10 (**)	0 to 10V
V5	0 to 5V
RS2 (***)	RS232 communications port

(**) This output range is only available with 24V power supply.
(***) This output range is only available with 12V power supply.

Power Supply Table (Table 3)

Power Supply Suffix	Power
12V	12 Vdc power supply
24V	24 Vdc power supply

Sensor head,
shown actual size.

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

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To Order

Model No.	Description
OS35RS-(1)-(2)-(3)	Smart-microIRt/c, 1:2 FOV
OS35RS-4-(1)-(2)-(3)	Smart-microIRt/c.4, 4:1 FOV
OS35RS-SV-(1)-(2)-(3)	Smart-microIRt/c.SV 1:2, side view
OS35RS-4SV-(1)-(2)-(3)	Smart-microIRt/c.4SV 4:1, side view

(1) Specify temperature code from Temperature Range Table 1. (2) Specify output suffix from Output Options Table 2. (3) Specify power supply suffix from Power Supply Table 3.

ACCESSORIES

Model No.	Description
OS36SM-MR	Mounting ring; stainless steel with silicone cushions, 6 mm (0.25") diameter
OS36SM-APJ	Air purge jacket; aluminum, 9.5 x 76 mm (⅜ x 3") diameter, cooling at 175°C (347°F)
OS36SM-MR-APJ	Mounting ring for air purge jacket; stainless steel with silicone cushions, 10 mm (0.38") diameter

Comes complete with operator's manual.
Ordering Examples: OS35RS-100C-MA-12V, *OS35-RS with a FOV 1:2, temperature range of 0 to 100°C (32 to 212°F), 4 to 20 mA output and 12 Vdc power supply.* ***OCW-2,*** *OMEGACARE℠ extends standard 2-year warranty to a total of 4 years for an additional cost.*
OS35RS-100C-MA-24V, *OS35-RS with FOV 1:2 temperature range of 0 to 100°C (32 to 212°F), 4 to 20 mA output and 24 Vdc power supply.*