

Temperature Sensor-Transmitter Combo

Ambient Temperature Measurements

MODEL TSC-10



FEATURES:

- Rugged construction
- Simple installation
- Low cost-high performance
- IP66 protection

OPTIONS:

- Non-standard ranges
- Non-standard configurations
- Custom features

The TSC-10 is a highly cost effective product designed to measure the ambient temperature of its environment. Its reliable design and construction ensure precision measurement under demanding conditions.

The TSC-10 converts the temperature of its precision 1000 Ω RTD sensor into a loop-powered 4-20mA signal which is linearly proportional to the sensor temperature. The transmitter is enclosed in a plastic NEMA 4 enclosure which is suitable for a variety of installations.

Primary application areas include agricultural, green houses, mushroom farms, chicken farms, hatcheries, dry and wet storage, heating and air conditioning, environmental chambers, computer rooms, refrigeration rooms.



MESCON
Technologies, Inc.

9318 Gulfstream Road • Suite A • Frankfort, IL. 60423 • Telephone: 815-464-5004 • Fax: 815-464-5003
E-Mail Address: mescon@mescontec.com • Web Site: www.mescontec.com

Temperature Sensor-Transmitter Combo

Ambient Temperature Measurements

MODEL TSC-10

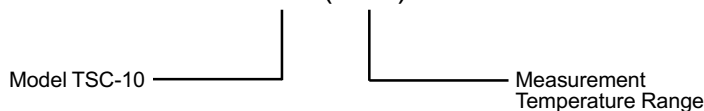
SPECIFICATIONS:

Output	4-20mA, limited @ 28mA
Supply Voltage	8-36 VDC, polarity protected
Maximum Load Resistance	$R(K\Omega) = (V_{\text{supply}} - 8)/20\text{mA}$
Supply Voltage Effect	Negligible
Input Sensor	RTD, 1000 Ohms @ 0°C
Measurement Range	0°C - 50°C (32°F - 122°F) std.
Linearity	Better than $\pm 0.03\%$ (referred to sensor's temperature)
Stability	Better than 0.01%/°C
Connection	Screw terminal via cable gland
Operating Temperature	-20°C to 70°C
Humidity	0-100% RH, non-condensing
Enclosure Protection	IP66 (NEMA4)
Mounting	4-holes, 4 mm diameter

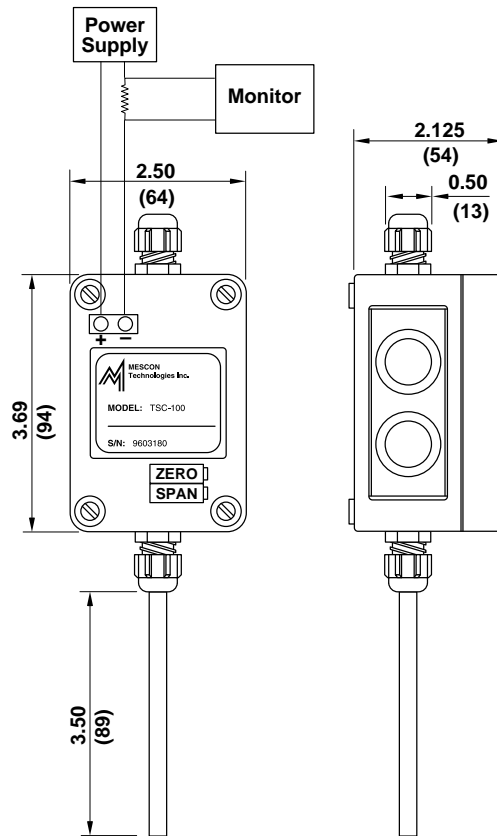
All specifications are subject to change without notice.

ORDERING INFORMATION

TSC-10 - (0-50) °C or °F



Please request our ordering and calibration diskette describing the balance of Mescon's products.



Dimensions are in inches (mm)

Wiring Instructions:

1. Remove the top cover of the plastic enclosure.
2. Insert the output cable through the cable gland.
3. Connect the positive supply lead to the (+) terminal.
4. Connect the negative supply lead to the (-) terminal.
5. Tighten the cable gland to secure its water tight seal.
6. Replace the top cover and secure the screws for a water tight seal of the electronics assembly.

Note: The electronics assembly is environmentally sealed by the cable gland and the IP66 enclosure. Care should be taken in order to use the proper cable size and type and to ensure that the cover is properly seated and the gland is correctly sealed.

Calibration and Adjustments:

1. Calibrating the TSC-10 requires the removal of the sensor wiring from the electronics board.
2. The electronics assembly is environmentally sealed by a cable gland at the top of the housing. Care should be taken so as to avoid any damage to it.

Distributed By:



MESCON
Technologies, Inc.

Tel: 815-464-5004 • Fax: 815-464-5003
E-Mail Address: mescon@mescontec.com
Web Site: www.mescontec.com