

Series TH-15U

Universal Input Temperature and mV 2-Wire Transmitter. Thermal-Head Mounted.

User selectable for all thermocouple types, mV and PT-100 RTD.

The Mescon TH-15U is a low cost, non-isolated temperature transmitter designed to fit in a standard thermal head. A new design features a unique circuitry that enables the use of a single transmitter for the measurements of either Pt-100 RTD, Thermocouple input or mV. When set to Thermocouple mode, the TH-15U accepts all known Thermocouple types. The advantages of using the TH-15U transmitter are:

- **Reduced inventory levels for both in-plant users and distributors.**
- **Ease of maintenance through product standardization.**
- **Better measurement stability through improved circuitry and enhanced RFI-EMI rejection.**



FEATURES:

- **Custom embedded terminals** for physical rigidity and reliability
- **Low profile enclosure design** for easier mounting and wiring
- **Hinged cover for zero & span pots** for application in dirty environments
- **Separated input/output connection** reduces harmful leakage currents



MESCON
Technologies, Inc.

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

Universal Temperature Transmitters

Head-Mounted Multi-Input TC-RTD-mV

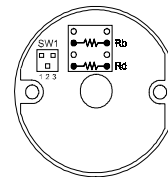
2-Wire Non-Isolated Transmitters

Specifications:

Output Span:	4-20mA, limiting @ <28mA
Input:	RTD -Pt-100, 2 or 3 wire connection 20°C minimum, 500°C maximum. TC - all known types. 10mV min. span.
Input Span:	RTD - 20°C min. 500°C max. (36°F min. 900°F max.)
Burnout Detection:	Upscale - standard.
Supply Voltage:	8-38 VDC polarity protected.
Maximum Load:	$R_{max} = (V_{supply} - 8V)/20mA$
Ambient Temp.:	-20°C to + 70°C
Humidity:	0 - 95% RH, Non-condensing
Linearity:	RTD: better than $\pm 0.05\%$ of span referred to sensor temperature. TC/mV: better than $\pm 0.03\%$ of span referred to mV input level.
Stability:	Pt-100 (100 °C span): 0.03% of span/°C TC/mV (25mV input): 0.04% of span/°C
RJ Compensation:	For TC - 0.05°C/°C of ambient temp.

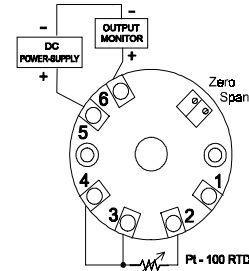
RTD CONFIGURATION

Switch, Resistors - Positions



SW1: 1, 3 - ON; 2 - OFF

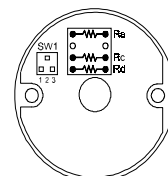
BOTTOM VIEW



TOP VIEW

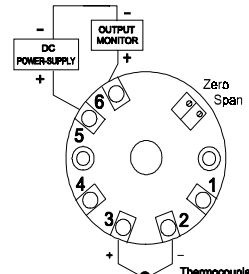
THERMOCOUPLE CONFIGURATION

Switch, Resistors - Position

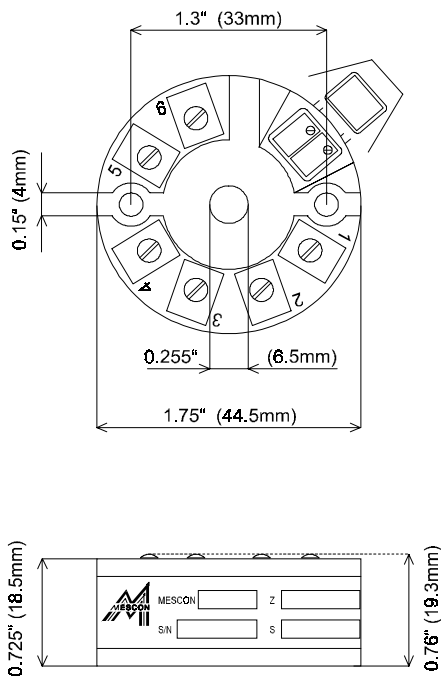


SW1: 2 - ON; 1, 3 - OFF

BOTTOM VIEW



TOP VIEW



Ordering Information:

TH 15/1 - 3 (0-300) C

Model 15/1 for RTD			
15/2 for TC			
15/3 for mV			
No. of wires for 15/1			
TC type for 15/2			
Measurement Range			
Units (°C, °F of mV)			