

Temperature Transmitters, Universal Elliptical shape, Linearized, Isolated Model TH14/U (L)

Model TH14/U are precision and isolated, loop-powered 2-wire transmitters, designed to fit into elliptically shaped thermal heads. It includes all the necessary circuitry for the amplification and processing of signals from Thermocouple, mV and RTD sensors. The input circuit can accept all Thermocouples types and provides Cold Junction reference compensation. While it linearizes Pt-100 RTDs as standard, model TH14/2 (L) provides input linearization to correct for the inherent thermocouple non linearity. The TH14 is a member of Mescon's line of advanced Universal-Input transmitters, indicators and signal-conditioners which can be easily and readily configured to customers requirements.



FEATURES:

- Fits elliptical thermal heads
- Linearization for Thermocouples, RTDs and mV signals
- 2-Wire transmitter system.
- Eliminates ground loop errors
- All known Thermocouples.
- User selectable Thermocouples, RTDs or mV input
- User rangeable
- Over 1500 VDC isolation
- Wide ranging ZERO and SPAN



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

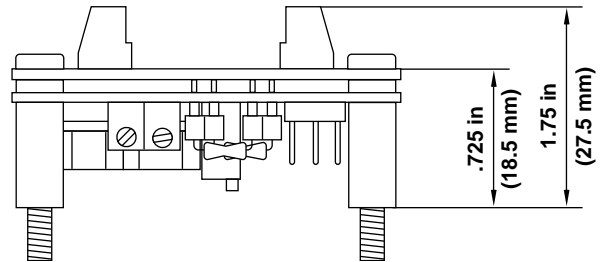
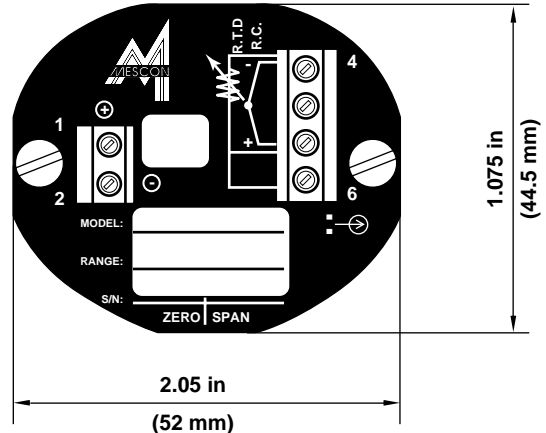
Temperature Transmitters, Universal

Elliptical shape, Linearized, Isolated

Model TH14/U (L)

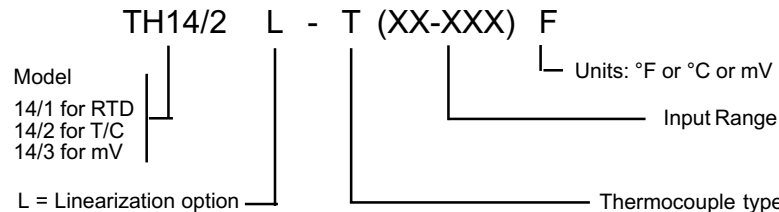
SPECIFICATIONS:

Inputs	All known Thermocouples, RTDs, mV signals (Ni, NiFe, Cu and other RTD types, also available)
Input Span	5 mV min (10mV for rated accuracy)
Burnout Detection	Upscale, standard
Input Impedance	> 10 M Ω on all T/C ranges
Output Span	4-20 mA, limiting @ < 28 mA
Reference Junction ...	$\pm 1^{\circ}\text{C}$ accuracy for 0 - 50 $^{\circ}\text{C}$ ambient
Linearity (TH14/2)	0.025% referred to mV input
(TH14/1)	0.1% referred to temperature input
(Th14/2L)	0.25% (BSLF) referred to temperature input (most ranges)
Temperature Stability ..	Better than $\pm 0.01\%/^{\circ}\text{F}$ (10 mV input span TH14/2) (100 Deg C input span TH14/1)
I/O Isolation	1500 VDC or peak AC
Power Supply	8-40 VDC Reverse polarity protected.
Supply Voltage Effect:	< $\pm 0.001\%$ per Volt
Output Ripple	< 0.005% of span to 5KHz
Adjustments	> $\pm 25\%$ for both ZERO and SPAN
Operating Temperature	-20 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$. (0 $^{\circ}\text{F}$ to 160 $^{\circ}\text{F}$)
Humidity	0-95% RH, non-condensing
Mounting	Elliptically shaped thermal head (specific)



All specifications are subject to change without notice.

ORDERING INFORMATION



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



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Tel: 815-464-5004 • Fax: 815-464-5003
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