

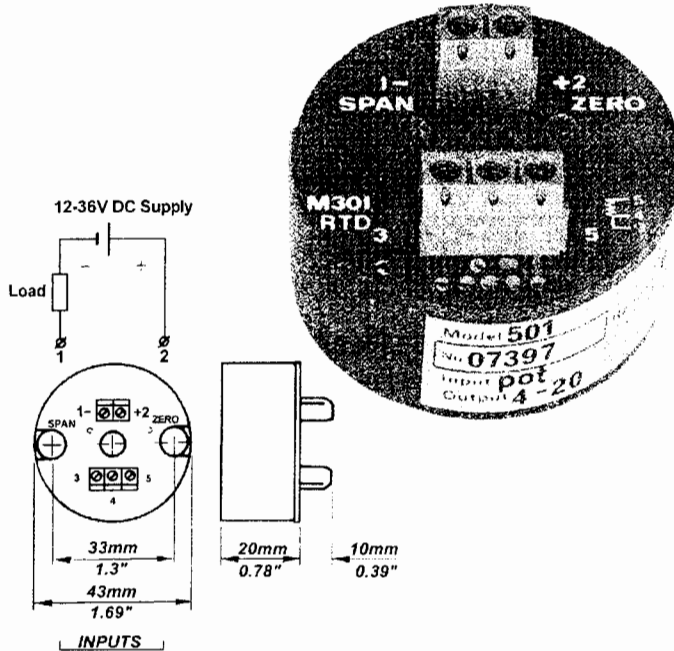
Thermocouple Temperature Transmitters

GENERAL

The temperature transmitter is designed to produce a linearized 4-20 mA current signal, which is directly proportional to the temperature of the sensing element. A variety of models are available for sensor inputs of different materials, values and temperature coefficients.

FEATURES

- 4-20 mA output.
- Low Cost.
- Accuracy- 0.1% of span.
- Low Drift.
- Inputs: Thermocouple, E, J, K, T, R, S, B, N.
- Adjustable span and zero point up to 45% of span
- Measurement range is easily changeable by the user.



STANDARD MODEL SPECIFICATIONS

Output: 4-20 mA

Trim stability: Better than 0.05%

Minimum current: 2.5 mA

Maximum current: 28 mA

Supply voltage: 9-36 VDC

Supply voltage variation effect: Less than 0.001% for 1 volt Change

Temperature stability (drift): Zero-better than 0.01/1°C
Span-better than 0.01%/1°C

Calibration inaccuracy: Less than 0.1% of input span

Self-Heating Effect: Less than 0.2% of input span

Operating temp: -20 + 70°C

Linearity: better than 0.03% of span

Ambient storage temperature: -40 ± 100°C

TYPE M-401 is a thermocouple input transmitter for thermocouple types: E, J, K, T, R, S, B, N.

Type M-501 uses potentiometer resistance. Min. resistance: 100 Ohms Max. resistance: 20k Ohms

Acrolab can also supply 2-wire transmitters for various ranges and different kinds of inputs, such as: mA, mV, etc.