

Thermocouple Transmitter

TT37



- Wide programmable input range
- Linearized
- Available Thermocouple in J,K,L,R,S,T
- Isolated input to output
- Compact DIN rail mount enclosure
- High accuracy
- Low cost
- Easy to install

Specifications

Thermocouple Input

Number of Channel: 1 Channel

Input Type: J, K, L, R, S, T

Input Range:

type J (0 to 600 °C)

type K (0 to 1200 °C)

type L (0 to 600 °C)

type R (0 to 1700 °C)

type S (0 to 1700 °C)

type T (0 to 400 °C)

(Units are rangeable within type of thermocouple supplied but not between different thermocouple types)

Cold junction compensation range:

0 to 50 °C

Burn Out thermocouple: Upscale drive standard

Analog Output

Number of Channel: 1 Channel

Output Type: Current (2 Wire)

Output Range: 4 to 20mA

Ordering Information: Specify thermocouple type, temperature range

Example TT37/Type K /0-500 °C

Package Checklist

1. TT37

Loop powered: 12 to 35 VDC

Linearity:

< ± 0.25% of span (for J, K thermocouples)

< ± 0.5% of span (for other types)

Ambient drift: < ± 0.02% / °C of span

Output Impedance: Max. 600 Ω @ 24 VDC (50 Ω/V above 12 VDC)

Maximum Output Current: < 26 mA

Isolation voltage: 500 VAC input/output isolation (1min test)

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W22 × H80 × D85 mm.

Mounting: DIN or EN rail

Warranty

Warranty Period: 5 year

