

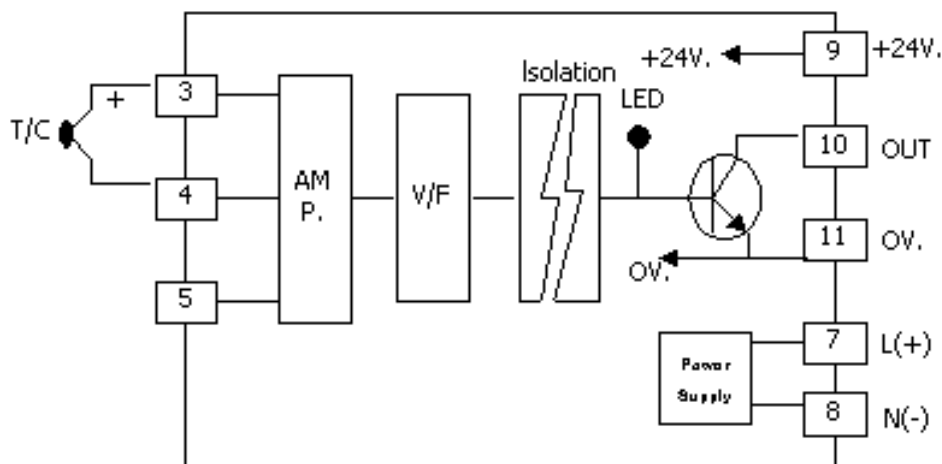
Thermocouple To Frequency

TF96



- Interface to PLC digital input
- Programmable range
- Linearized output
- Isolation of input, output and power supply
- Cold junction compensation

Thermocouple To Frequency TF96 This device enables a PLC to receive temperature readings from a thermocouple sensor without requiring an analog input channel. It converts temperature values into a frequency signal fed to the PLC's digital input; the PLC's high-speed counter then measures the signal frequency, which varies in proportion to the temperature. The TF96 is particularly useful for allowing Micro PLCs which typically only accept digital input signals to receive temperature data from thermocouples.



Specifications

Thermocouple Input

Number of channel: 1 Channel

Input type: Thermocouple

Input range:

Type J (0 to 800 °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 ((-)200 to 200 °C)

Cold junction compensation: 0 to 50 °C

Burn out thermocouple: Upscale drive standard

Linearity: < ± 0.2% of span

Digital Output

Number of channel: 1 Channel

Output type: NPN open collector

I/O Mode: Pulse Output

Pulse Frequency: 0 KHz to 5 KHz

Isolation voltage: 500 VAC (1 min.)
between input, output, power supply

Ordering Information: Specify Thermocouple type, Input range, Output, Power supply

Example TF96/Type K/0-400 °C/0KHz-5KHz/220VAC

Package Checklist

1. TF96

Power Requirements

Power Supply: 100, 110, 220 VAC 24VDC (Optional)

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W50 x H70 x D130 mm.

Mounting: Wall or DIN rail

Construction: Plug-in 11 pins socket

Warranty

Warranty Period: 5 Year