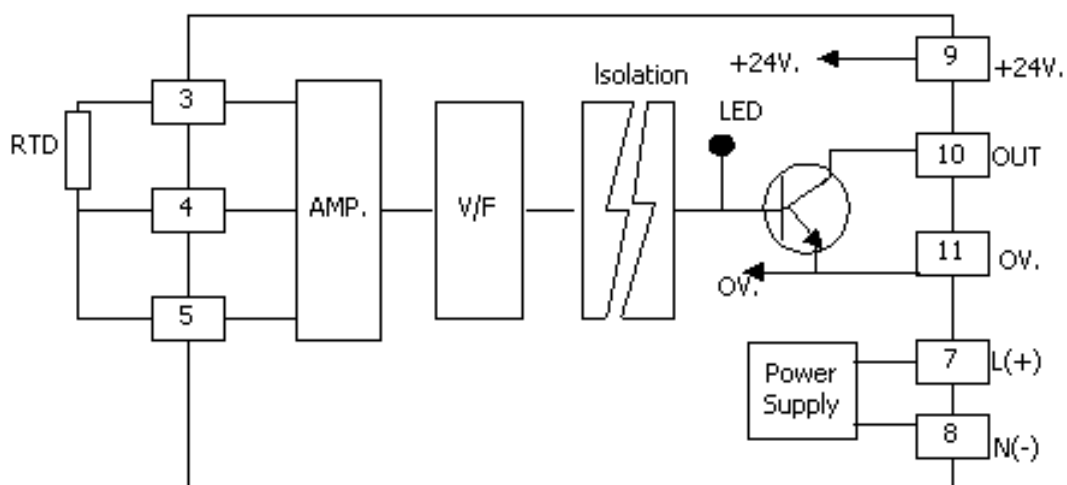


RTD To Frequency RF96



- Interface to PLC digital input
- Programmable Range
- Isolated input to output to Power supply
- True lead length compensation

RTD To Frequency RF96 This device enables a PLC to acquire temperature readings from a PT100 sensor without requiring an analog input channel. The RF96 operates by converting temperature values into a frequency signal fed to the PLC's digital input; the PLC's high-speed counter then measures this signal frequency, which varies in proportion to the temperature. This device is particularly useful for Micro PLCs which typically only accept digital inputs allowing them to receive temperature data from PT100 sensors.



Specifications

RTD Input

Number of channel: 1 Channel

Input type: RTD Pt100 DIN or JIS
(3 wire type)

Input range:

Lead wire resistance 5 Ω /wire max.

Rangeable zero from (-)100°C to 100°C

Rangeable span from 15 °C to 500 °C

Other types of RTD input available Cu100,
Pt1000

Linearity: < $\pm$ 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 Between
input, output and power supply (1min. test)

Power Requirements

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

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

Example RF96/Pt100/0-200°C/4-20mA/220VAC

Package Checklist

1. RF96