420-TW-RTD

ISOLATING TERMINAL BLOCKS

- Replace Standard DIN-Rail Terminals
- RFI Protection, Input Isolation
- 2 and 3-Wire RTD Inputs.
- 2 Wire 4-20mA Output
- High Noise Immunity
- Low Cost Solution

Description

The 420-TW series of isolating terminal blocks can replace standard DIN-rail terminals to provide input isolation, signal conversion and excellent RFI and noise rejection.

The units are powered from the output side, making them ideal for plc and data acquisition applications.

Inputs available include thermocouple, RTD, current and voltage and the standard output is 4-20mA.

The 420-TW-RTD can accept inputs from 2 or 3-wire RTD sensors and a wide slection of temperature ranges is available.

A typical wiring arrangement is shown opposite.

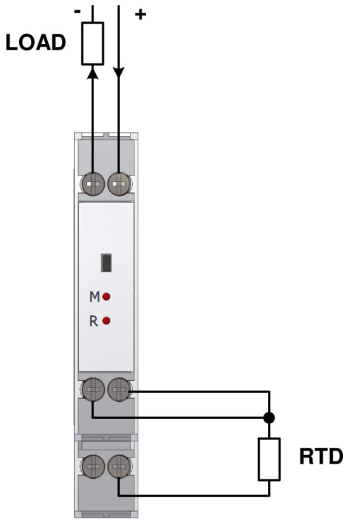
In addition two digital modules are available allowing the isolation of digital inputs and outputs.

The devices are housed in ultra-compact DIN rail mounted enclosures from only 12.5mm wide.

Input Options

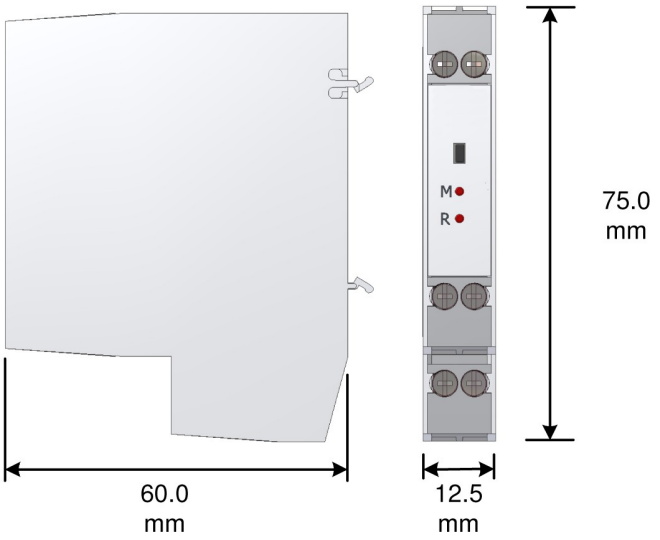
The most common wiring configuration is shown below:

Powered from the Output Side



Performance Characteristics

Parameter	Min	Typ	Max	Comments
Supply Voltage	10V	24V	32V	Powered from Output Side
Input Current	0mA	0-20mA	30mA	
Output Linearity Error		±0.1%		
Temp Coefficient			100ppm/ºC	
Load Resistance Error			±5ppm/Ω	$0 < R_L < 600\Omega$
Time Constant (10-90%)		30ms		
Operating Ambient	0ºC		50ºC	
Relative Humidity	0%		90%	
Isolation Voltage	500V			
Surge Voltage	2.5kV for 50µS			Transient of 10kV/µS
Notes	Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection.			

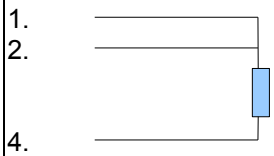


Installation Data

Mounting	DIN Rail TS32/35
Orientation	Any
Connections	Screw Clamp with pressure plate
Conductor size	0.5-4.0mm
Insulation Stripping	12mm
Weight	Approx 50g

Connection Details

-ve Output Channel +ve
+ve Output Channel -ve



Ordering Information

Please supply:

Part Number:

RTD In 4-20mA Out	421-TW-RTD
RTD Type:	e.g. 3-Wire PT100
Temp Range:	e.g. 0-100ºC