## **420TWHL**

# mA and Voltage Input Isolating Terminals



The 420TWHL series of isolating terminal blocks can replace standard DIN-Rail terminal 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 for the 420TWHL include mA or Voltage and other units are available with thermocouple, mV or RTD inputs. The standard output is 4-20mA.

The 420TWHL units are housed in ultracompact DIN-rail mounted enclosures just 18mm wide.

- Replace Standard DIN-Rail Terminals
- RFI Protection, Input Isolation
- **Voltage or Current Inputs**
- Simple 2 Wire 4-20mA Output
- Loop Powered Output Gives High Noise Immunity
- **Low Cost Solution**

### **Input Options**

The range of inputs for the 420TWHL are as follows:-Standard Ranges are 4-20mA, 0-20mA, 0-10V and 1-5V.

But the unit can cover the following ranges:-

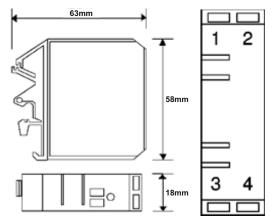
Input Types	Input Range MIN	Input Range MAX	
DC Current	0 - 100μΑ	0 - 5 A	
DC Voltage	0 - 100mV	0 - 100 V	

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<b>Technical Specifications</b>					
Parameter	Min	Тур	Max	Comments	
Supply Voltage	10V	24V	32V	Powered from Output Side	
Input Current	0mA	0-20mA	30mA		
Full Scale Volt Drop		0.2V	0.3V	On Input Side (20mA Input)	
Input Impedance (Volt In)		1Ми		Voltage Input	
Input Impedance (mA In)		10Ми		mA Input	
Output Linearity Error		±0.1%			
Temp Coefficient			100ppm/°C		
Load Resistance Error			±5ppm/и	0 < RL < 600и	
Time Constant (10-90%)		30ms		300ms for Thermocouple Input	
Operating Ambient	-15°C		70°C		
Relative Humidity	0%		90%		
Isolation Voltage	1kV				
Surge Voltage	2.5kV for 50μSTransient of 10kV/μS				
Notes	Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur.				
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Device is protected against reverse polarity connection.

Accuracy figures based on 0-20mA input, 250m load resistance, and an ambient temperature of 20°C.

#### **Installation Data** Mounting DIN Rail TS35 Orientation Screw Clamp with pressure plate Connections 0.5-4.0mm **Conductor Size** Insulation Stripping 12mm Weight Approx 50g **Ordering Information** Part No.: SC420TWHL 4-20mA In 4-20mA Out



#### **Connection Details** 1. Output Channel +ve Output Channel -ve 3. Input Channel +ve

