

FEATURES

- Universal signal conditioner
- Smart converter with programmable USB interface
- Input ranges of 1 to 100 K Ω , -10 to 10 V DC, -200 to +2000 $^{\circ}$ C and -25 to 25 mA
- Output ranges of 0 to 12 V, 0 to 20 mA, SPDT relay
- DIN rail mountable
- Screw-type terminals
- Minimum operating temperature of -20 $^{\circ}$ C
- Maximum operating temperature of 70 $^{\circ}$ C
- Conforms to CE standards for health, safety and environmental protection

RS PRO 1 \rightarrow 100 K Ω , -10 \rightarrow 10 V dc, -200 \rightarrow +2000 $^{\circ}$ C, -25 \rightarrow 25 mA Input, 0 \rightarrow 12 V, 0

RS Stock No.: 788-6987



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

Packed with a host of features, this new-generation universal current-output signal conditioner from the RS PRO range is programmable to custom-fit your needs. The smart converter accepts most common process and temperature sensor inputs and the output signal can be programmed to current or voltage settings, as well as dual-trip relays with a delay function. This signal conditioner powers on via the USB port, automatically uploads existing configuration data and guides you through any changes you want to make.

General Specifications

Module Type	Signal Conditioner
Signal Conditioner Type	Universal to Current
Input Type	Universal
Input Range	1KΩ to 100KΩ, -10Vdc to 10Vdc, -200°C to +2000°C, -25mA to 25mA
Output Type	Current
Output Range	0V to 12V, 0mA to 20mA, SPDT Relay
Interface	USB Cable
Accuracy	± 0.5°C + (0.1% of FSR)
Linearity	±0.015% FSR /°C
Response Time	<500ms to reach 95% of final value; Start up time <3s
Over Range Protection	Reverse connection and over-voltage protection. Max over voltage current 100mA.
Indication	LED blinks when signal is within range, Continuously on in fault
Special Features	Smart converter with programmable USB interface
Applications	Industrial and process automation

Electrical Specifications

Supply Voltage	20Vac to 240Vac, 20Vdc to 240Vdc
Power Consumption	<3W
Termination	Screw
Isolation	500V to output : 3750V to supply and Trips
Potentiometer Input	1K Ω to 1000K Ω

Mechanical Specifications

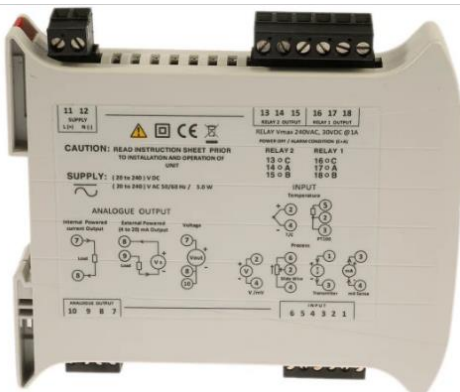
Mounting Type	DIN Rail
Dimensions	22.5mm x 101mm x 120mm
Height	120mm
Width	22.5mm
Depth	101mm

Operation Environment Specifications

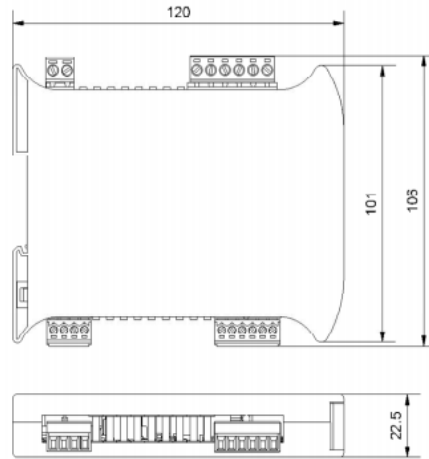
Operating Temperature Range	-20°C to 70°C
Minimum Operating Temperature	-20°C
Maximum Operating Temperature	70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10 to 95% RH non-condensing

Approvals

Compliance/Certifications	CE tested to BS EN 61326 ; BS EN 61010_1
Standards Met	CE



MECHANICAL
(Dimensions in mm)



ELECTRICAL

