

## FEATURES

- Temperature-to-current signal conditioner
- Smart converter, configurable via USB interface
- Accepts inputs of 0 to 100 K $\Omega$ , -100 to 200 mV, -200 °C to +2000 °C
- Output ranges of 0 to 10 V and 0 to 21.5 mA
- Minimum operating temperature of -30°C
- Maximum operating temperature of 70°C
- DIN rail mountable for easy installation
- Conforms with CE standards for health, safety, and environmental protection

**RS PRO 0 → 100 K $\Omega$ , -100 → 200 mV, -200 → +2000 °C Input, 0 → 10 V, 0 → 21.5 mA Output**

RS Stock No.: 788-6999



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

Use this current-output signal conditioner to reliably convert analogue temperature input signals from RTD, thermocouple or slide wire to either voltage, bipolar voltage or current re-transmission signals outputs. The converter automatically configures to AC or DC supply. A transmitter power supply is provided on both input and output, meaning the product can accept sink or source applications.

Able to accept inputs from resistive sensors in the range of 0 to 100 K $\Omega$ , -100 to 200 mV, -200 to +2000 °C, the converter's flexible design makes it a versatile choice. It's fitted with a USB interface for quick and easy configuration, so you simply download and install free software tools for 22-point linearization characteristics to customise this smart converter to your needs.

Link for free software <https://www.status.co.uk/product/usb-speedlink/>

## General Specifications

<b>Module Type</b>	Signal Conditioner
<b>Signal Conditioner Type</b>	Temperature to Current
<b>Input Type</b>	Temperature
<b>Input Range</b>	0K $\Omega$ to 100K $\Omega$ , -100mV to 200mV, -200°C to +2000°C
<b>Output Type</b>	Current
<b>Output Range</b>	0mA to 21.5mA, 0V to +10V
<b>Interface</b>	USB Cable
<b>Accuracy</b>	$\pm 5$ uA
<b>Thermal Drift</b>	0.013 $\Omega$ /°C (0 to 500 $\Omega$ ), 0.063 $\Omega$ /°C (500 to 2500 $\Omega$ )
<b>Response Time</b>	Start up 5 seconds, Update 300mS, Response 400mS, and Warm up 2 minutes.
<b>Over Range Protection</b>	Protected by internal 500mA resettable fuse
<b>Indication</b>	LED Green, Red (Error)
<b>Special Features</b>	Status Indicator
<b>Applications</b>	Industrial and process automation

### Electrical Specifications

<b>Supply Voltage</b>	10Vac to 32Vac, 10Vdc to 48 Vdc
<b>Termination</b>	Screw
<b>Power Consumption</b>	<1W
<b>Potentiometer Input</b>	1k $\Omega$ to 100k $\Omega$
<b>Isolation</b>	Supply to input to output 500 V dc.

### Mechanical Specifications

<b>Mounting Type</b>	DIN Rail
<b>Installation Enclosure</b>	DIN Rail enclosure offering Protection
<b>DIN Rail Type</b>	DIN 43880
<b>Dimension</b>	17.5mm x 90mm x 56.4mm
<b>Height</b>	90mm
<b>Width</b>	17.5mm
<b>Depth</b>	56.4mm
<b>Weight</b>	70g

### Operation Environment Specifications

<b>Operating Temperature Range</b>	-30°C to 70°C
<b>Minimum Operating Temperature</b>	-30°C
<b>Maximum Operating Temperature</b>	70°C
<b>Storage Temperature</b>	-30°C to +70°C
<b>Relative Humidity</b>	10 to 90% RH non-condensing

### Protection Category

<b>IP Rating</b>	IP65
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### Approvals

<b>Compliance/Certifications</b>	BS EN 61326
<b>Standards Met</b>	CE



