

# Process Signal Conditioner

For a range of industrial applications



**0.1%**  
Accuracy

**0 to +/- 10V / 4-20mA / 10-50mA**

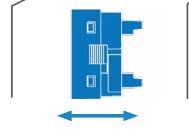
User selectable voltage and current



User-configurable settings via the **free, easy-to-use software**



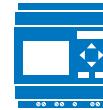
User configurable linearization



Less than 62mm deep



Remote monitoring with **APM Gateway** and **Trumeter Cloud**



**2 Outputs**  
Digital (open collector) or Analog (4-20mA)



**DIN Rail Mount**  
Compact design for simple installation



10 alarm set points

The Process Signal Conditioner is engineered for process control applications, including variable speed drives, flow and pressure transducers, and both linear and non-linear sensors. Its advanced 20-point non-linear conversion ensures accurate measurement of complex sensor signals. With user-selectable inputs, it can measure 0–10 V DC, 10–50 mA, or 4–20 mA with 0.1% accuracy across the full input range.

Designed for DIN rail mounting, the unit combines precision with versatility, making it suitable for a wide range of industrial environments. It integrates seamlessly with other control and monitoring systems through configurable digital and analog outputs.

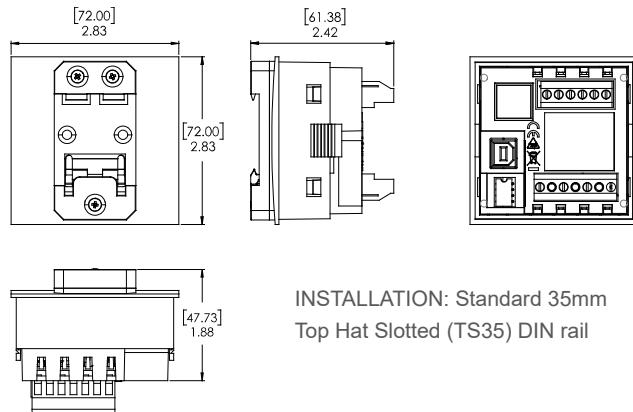
For extended functionality, the Process Signal Conditioner can be paired with the APM Gateway to connect directly to Trumeter Cloud. This secure connection enables remote monitoring, data logging, and alerts via email or online dashboard, with SMS alerts available as an option. Unlocking full visibility and actionable insights into system performance anytime, anywhere.

## Programmable

**Simply connect to any USB port on your PC, launch the free configurator software, and start configuring.**

- Scale (offset, gain and linear) and Range (min and max).
- 20 point non-linearization scaling for non-linear sensors.
- Ten independent alarm set-points.
- Configurable digital output delays (control the time output stays open/closed - .5 seconds – 120 seconds).

## Dimensions



INSTALLATION: Standard 35mm  
Top Hat Slotted (TS35) DIN rail

## Specification

### INPUT

	VOLTAGE	CURRENT
Range (DC)	0 to +/-10VDC	0-50mA
Impedance	100KΩ	15Ω
Accuracy	0.1% of input or 0.5mV / 0.5uA (whichever is greater)	

### ENVIRONMENTAL

Temperature - operating	-10 to +60°C
Temperature - storage	-40 to +70°C
IP rating	IP20

### POWER SUPPLY

Nominal Input	12-24VAC or DC
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### OUTPUTS

Max voltage	34V
Max current	500mA
Analogue output	4-20mA

### CERTIFICATION

UL, cUL, CE



## Part Numbers

<b>SC-PROC-DIN</b>	Process Signal Conditioner, DIN Rail Mount
<b>022128-01</b>	USB Cable

We can **customize our Signal Conditioners** to match your requirements, adding extra **functionality** or **communication protocols** to suit your needs. If you can't find what you're looking for, **ask about our custom solutions!**



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