

# Micro Signal Conditioner

For DC Current Measurement



High resolution 0-200 $\mu$ A DC input

**0.01%** Accuracy



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



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



Less than 62mm deep



Remote monitoring with APM Gateway and Trumeter Cloud



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



10 alarm set points

The Micro Signal Conditioner delivers high-resolution DC current measurement in the microamp range (0–200  $\mu$ A) with 0.01% accuracy. Its high input impedance preserves signal integrity, making it ideal for sensor testing, R&D, medical and biotech devices, semiconductor monitoring, and low-current electronics manufacturing, providing precise, reliable measurements for delicate or high-precision applications.

Designed for DIN rail mounting, the unit combines precision with versatility, with user-configurable scaling and settings, 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.

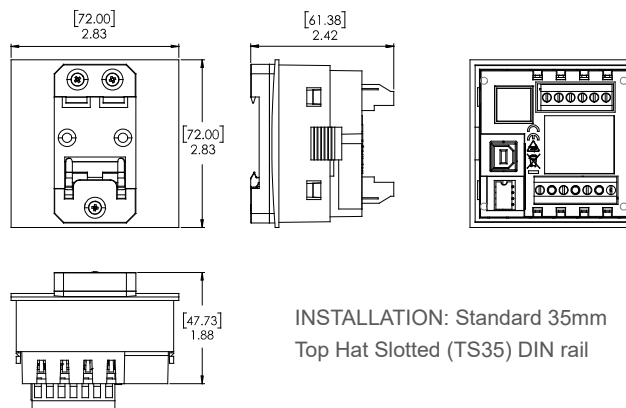
For extended functionality, the Micro Signal Conditioner can be paired with the APM Gateway to connect directly to Trumeter Cloud. This secure connection enables remote monitoring, data logging, and alerts via email or online dashboard, with SMS alerts available as an option. Unlocking full visibility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

Range	0-200uA DC
Impedance	4700Ω
Accuracy	0.01% of input or 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	12-24V DC
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### OUTPUTS

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

### CERTIFICATION

UL, cUL, CE



## Part Numbers

<b>SC-MICRO-DIN</b>	Micro 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!**

