

# Shunt Signal Conditioner

For DC Current Measurement



## 0-1VDC High Resolution Input

for DC Current Shunts on low side applications

**0.1%**  
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 Shunt Signal Conditioner features a 0–1 VDC high-resolution input for precise current measurement with DC shunts in low-side applications. Its sensitivity ensures accurate tracking of small voltage signals, ideal for applications where efficiency, safety, and equipment protection depend on exact measurement. By simplifying low-side measurement and reducing isolation requirements, it offers a cost-effective solution for battery monitoring, energy storage, DC power supplies, data centers, industrial automation, and R&D testing.

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.

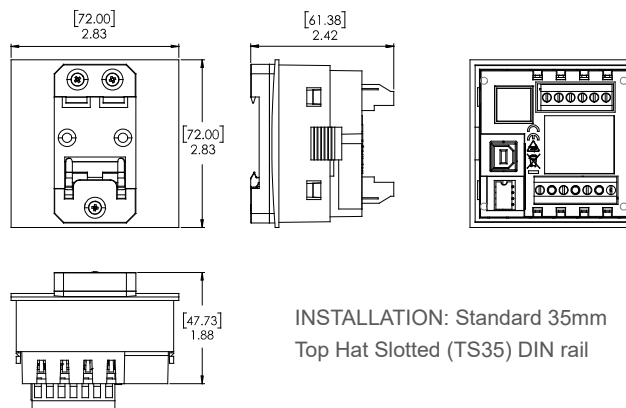
For extended functionality, the Shunt Signal Conditioner can be paired with the APM Gateway to connect directly to Trumeter Cloud. This secure connection enables remote monitoring, data logging, and alerts via email or online dashboard, with SMS alerts available as an option. Unlocking full visibility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



## Specification

### INPUT

Range	0-1 VDC
Impedance	1 Meg
Accuracy (0-200mV)	0.1% of signal or 0.5mV (whichever is greater)
Accuracy (201-1,000mV)	0.2% of full scale

### 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-SHUNT-DIN</b>	Shunt 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!**

