

# Frequency Signal Conditioner

Accurate AC pulse measurement



**2-400Hz** wide input for range of sensors

**0.5%** Accuracy



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



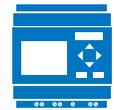
**DIN Rail Mount**  
Compact design for simple installation



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 Frequency Signal Conditioner precisely measures frequency and speed by accurately detecting DC pulses from sensors, supporting a wide input range of 2–400 Hz with 0.5% accuracy at 25 °C. Its versatility makes it ideal for industrial automation, motor control, material handling, and rotational equipment monitoring, providing reliable, real-time feedback to optimize performance and ensure process accuracy across diverse 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.

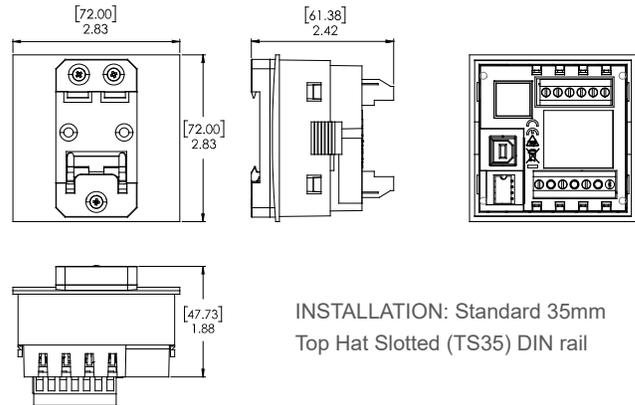
For extended functionality, the Frequency Signal Conditioner can be paired with the APM Gateway to connect directly to Trumeter Cloud. This secure connection enables remote monitoring, data logging, and alerts via email or online dashboard, with SMS alerts available as an option. Unlocking full visibility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

Input Range (AC)	2 - 400Hz
Accuracy	0.5%

### 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-FREQ-DIN</b>	Frequency 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!**

