

Rate Signal Conditioner

For a range of industrial applications



0-60kHz | NPN, PNP or Push-Pull

Versatile, wide-range input

0.01%
Accuracy



User configurable
linearization



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



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 Rate Signal Conditioner delivers versatility and precision with a frequency range from 0 to 60 kHz, support for NPN, PNP, and Push-Pull inputs, and $\pm 0.01\%$ accuracy. Stability is ensured by defined logic thresholds (<1.2 V for logic 0, >2.0 V for logic 1), while compatibility with a wide variety of sensors removes the need for additional converters. Engineered for applications requiring accurate and robust rate measurement its ideal for motor speed monitoring, flow measurement, process automation, and industrial test environments.

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 Rate 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.

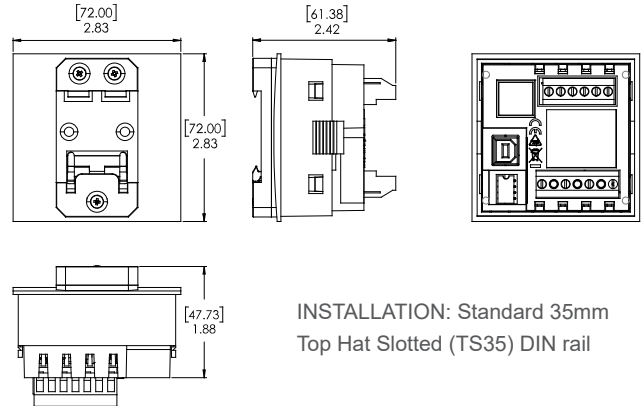
Go to www.trumeter.com for further information

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

Max Frequency	60 KHz (NPN, PNP or Push-Pull)
Min Frequency	0.001Hz
Logic 0	< 1.2V
Logic 1	> 2.0V
Accuracy	±0.01%

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

SC-RATE-DIN	Rate Signal Conditioner, DIN Rail Mount
022128-01	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!**

