

Temperature Signal Conditioner

For use with Thermocouples



For use with thermocouples:

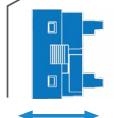
**Type B, E, J,
K, N, R, S
and T**



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 Temperature Signal Conditioner offers multi-thermocouple compatibility (Types B, E, J, K, N, R, S, T) and high accuracy, making it ideal for industries where precise temperature control is crucial. A single device supporting multiple sensor types helps simplify system design by reducing the need for multiple units. Common applications include industrial process control, energy and power generation, pharmaceutical and food processing, semiconductor and electronics manufacturing, HVAC and environmental chambers, and R&D labs.

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.

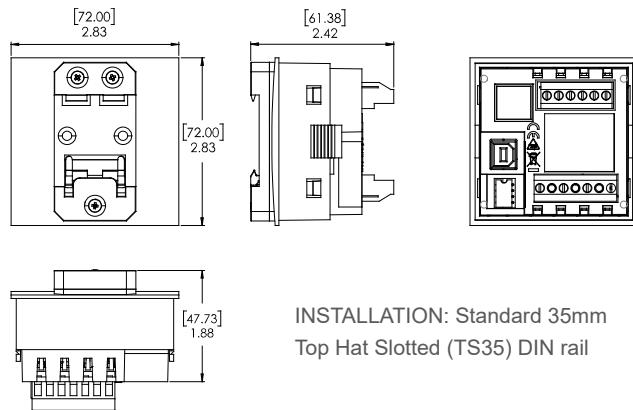
For extended functionality, the Temperature Signal Conditioner can be paired with the APM Gateway to connect directly to Trumeter Cloud. This secure connection enables remote monitoring, data logging, and alerts via email or online dashboard, with SMS alerts available as an option. Unlocking full visibility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

Thermocouple Type B, E, J, K, N, R, S and T

Accuracy 0.5°C after 30 min | 0.2°C after 40 min

ENVIRONMENTAL

Temperature - operating -10 to +60°C

Temperature - storage -40 to +70°C

IP rating IP20

POWER SUPPLY

Nominal Input 12-24VAC or DC

OUTPUTS

Max voltage 34V

Max current 500mA

Analogue output 4-20mA

CERTIFICATION UL, cUL, CE



Part Numbers

SC-TEMP-DIN	Temperature 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!**

