

# 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.

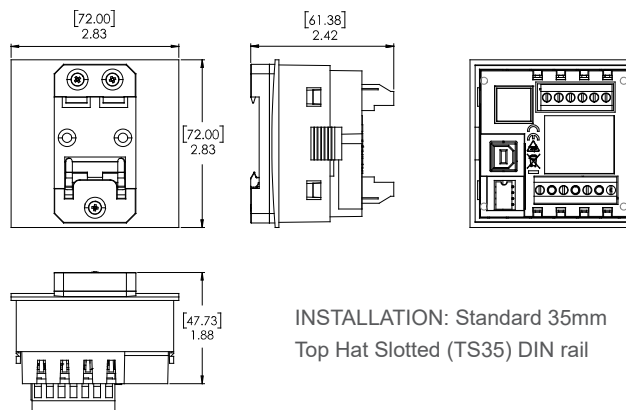
**Go to [www.trumeter.com](http://www.trumeter.com) for further information**

## 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



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!**

