PRODUCT SPEC SHEET RST Range



RST Range

TEMPERATURE SENSORS



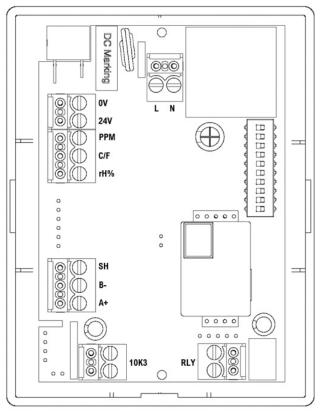
Product Overview:

The RST Temperature Room Sensors, designed to be used across residential, public, commercial, and light industrial settings. These sensors offer digital & analog outputs and exceptional performance features.

Key Features:

- Versatile Outputs: Delivering 1x 0-10V analog signal for Temperature (°C or °F), alongside digital RS-485 communication supporting Modbus RTU or BACnet MS/TP protocols.
- Robust Construction: Designed for straightforward wall mounting with a 1/2" DIA rear entry and snap-offs for side trunking, encased in a durable ABS UL Flame retardant housing, assuring longevity and safety in diverse environments.
- Flexible Power Options: Compatible with 12-24V AC/DC or 230VAC electrical systems.
- Optimal Performance: Exhibiting rapid response times, quick warm-up periods, and excellent long-term stability, with minimal interference, guaranteeing accurate readings and consistent operation over time.

Circuit Board Diagram:



CONNECTION	LABEL	TERMINATION
230V AC IN	POWER LIVE IN	L (Line) N (Neutral)
24V AC/DC INPUT	24V IN	+24V 0V (Common GND)
ANALOG OUT/P	+10V OUT	°C/F (Temperature O/P)
DIGITAL OUT/P	RS-485	A+ B- SH (Shield)
THERMISTOR	10К3	(No Polarity)
CO2 VFC RELAY	RLY 70mA	Disabled On This Model

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Technical Specifications

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Mounting Wall Mounted **Entry** 1/2" DIA Rear Entry Size (W x H x D)

Display Screen - 3.38" x 4.48" x 1.3" / Blank & LED - 3.38" x 4.48" x 0.98"

Weight ABS UL Flame retardant - IP40 **Enclosure**

Electrical

24V AC/DC Power Rating 12-24VDC (11-32 VDC) / 24VAC, (20-27 VAC) 50-60Hz

230VAC Power Rating Nominal 230VAC, (90-250V AC), 50-60H

Resettable PPTC 110VAC, 400mA Internal Fuse

> 127 Units Max 5W Max

Environmental

Communication

Power Consumption

Operating Temperature 14°F to 122°F / -10°C to 50°C

Storage 32-86°F / 0°C to 30°C

Room Humidity 0 to 95% RH (continuous) Non-Condensing

Atmospheric Pressure 80 to 110Pa Altitude <6562ft

Installation Cat (230V Voltage) II (Class 2) Pollution Degree 2

Installation Cat (24V Voltage) III (Class 3) Pollution Degree 2

Inputs / Outputs

1x Linear 0-10V/2-10V Temperature. Thermistor (10K3). **Analog Outputs**

Digital Networks BACnet MS/TP or MODBUS RTU (Parity: None Data bit: 8bit Stop bit: 1)

1x SPST 70mA **Relay Outputs**

Cable Spec

22 - 24 AWG Power **Analog Output** 22 - 24 AWG

22 - 24 AWG Relay Digital Output 22 - 24 AWG twisted pair + ground, shielded cable with 120 Ω

characteristic impedance.

User Interface

English Lanugage Optional Display

Green: Power (OK) / Yellow: Warning (Pre-Alarm) / Red: Danger (Alarm) Indication

Safety & EMC

Safety IEC 61010-1 **FCC** Electromagnetic Compatibility

CE, EMC, RoHS, REACH and WEEE Compliant Compliance

Temperature (°F or °C)

Fully Calibrated

Normal Indication Range: 32-122°F

Response: t63% @ 77°F ~20s

Typical Excellent long term stability

Strong anti-interference

Warm Up Time: 1 minute

Accuracy: ±0.5° @ 50-113°F

Resolution: 0.1°