PRODUCT SPEC SHEET RSTH Range



RSTH Range

TEMPERATURE & HUMIDITY SENSORS



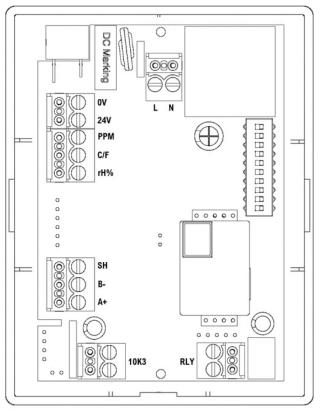
Product Overview:

The RSTH Range: Featuring Temperature Sensors & Humidity Sensors, designed to monitor and measure vital indoor air quality environmental parameters with precision and reliability. Engineered to be used across residential, public, commercial, and light industrial settings, these sensors offer digital & analog outputs and exceptional performance features.

Key Features:

- Digital RS-485: Modbus RTU or BACnet MS/TP communication protocols
- Analog: 2x Linear 0-10V/2-10V CO2, Temperature & Humidity.
- 10k3 Thermistor

Circuit Board Diagram:



CONNECTION 120V AC IN		LABEL	TERMINATION L (Line) N (Neutral)			
		POWER LIVE IN				
	24V AC/DC INPUT	24V IN	+24V 0V (Common GND)			
	ANALOG OUT/P	+10V OUT	°C/F (Temperature O/P) %RH (Humidity O/P)			
	DIGITAL OUT/P	RS-485	A+ B- SH (Shield)			
	THERMISTOR	10K3	(No Polarity)			
	CO2 VFC RELAY	RLY 70mA	Disabled On This Model			

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Technical Specifications

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Size (WxHxD) Weight

Mounting Wall Mounted **Entry** 1/2" DIA Rear Entry

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

0.35lb

ABS UL Flame retardant - IP40

Enclosure Electrical

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

Nominal 110VAC, (90-250V AC), 50-60H 110VAC Power Rating Internal Fuse Resettable PPTC 110VAC, 400mA

Communication 127 Units Max 5W Max

Power Consumption

Environmental

Operating Temperature 14°F to 122°F / -10°C to 50°C 32-86°F / 0°C to 30°C Storage

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

80 to 110Pa Atmospheric Pressure Altitude <6562ft

Installation Cat (110V Voltage) II (Class 2) Pollution Degree 2 Installation Cat (24V Voltage) III (Class 3) Pollution Degree 2

Inputs / Outputs

Analog Outputs 2 x Linear 0-10V/2-10V Temperature & Humidity. Thermistor (10K3). BACnet MS/TP or MODBUS RTU (Parity: None Data bit: 8bit Stop bit: 1) Digital Networks

Relay Outputs Disbled On This Model

Cable Spec

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

Relay Disabled On This Model

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

characteristic impedance.

User Interface

English Lanugage Optional Display

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

Safety & EMC

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

CE, EMC, RoHS, REACH and WEEE Compliant Compliance

Humidity (%RH)

Temperature (°F or °C)

Fully Calibrated Fully Calibrated Normal Indication Range: 32-122°F Indication Range: 0-100% RH

Response: t63% @ 77°F~20s Quick Response: t63% @ 77°F ~8s Typical Excellent long term stability **Excellent long term stability**

Strong anti-interference Strong anti-interference Warm Up Time: 1 minute Warm Up Time: 1 minute

Accuracy: ±2% @ 59-86°F (20-90%RH) Accuracy: ±0.5° @ 50-113°F

Resolution: 0.1° Resolution: 0.1%

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