

RSIAQ Range

Carbon Dioxide (CO₂),
Temperature, Humidity, VOCs,
PM1, PM2.5 & PM10



BLANK VERSION

DISPLAY SCREEN

Product Overview:

Monitor and measure carbon dioxide (CO₂), temperature, dust (PM), volatile compounds (VOCs) and relative humidity. Designed for all areas being directly connected to mains or low 24v AC or DC voltage supply, e.g., residential, public, commercial, and light industrial environments, which support a Digital RS-485: Modbus RTU or BACnet MS/TP communication protocols.

Key Features:

- Digital RS-485: Modbus RTU or BACnet MS/TP communication protocols
- 230V or 24VAC/DC Power Input
- Meets WELL Performance & RESET Standards

DIGITAL OUTPUT

RS-485 NETWORK BACNET
MS/TP OR MODBUS RTU 127 MAX



SENSORS

CARBON DIOXIDE (CO₂)
DUST PM1, PM2.5 & PM10
VOLTILE COMPOUNDS VOC
TEMPERATURE °F HUMIDITY
%rH

POWER INPUT

24V AC/DC OR
110-240VAC

Technical Specifications

Mechanical

Mounting	Wall Mounted
Entry Size (W x H x D)	1/2" DIA Rear Entry
Weight	Display Screen - 3.38" x 4.48" x 1.3" / Blank & LED - 3.38" x 4.48" x 0.98"
Enclosure	0.20kg ABS UL Flame retardant - IP40

Electrical

24V AC/DC Power Rating	12-24VDC (11-32 VDC) / 24VAC, (20-27 VAC) 50-60Hz
230VAC Power	Nominal 230VAC, (90-250V AC), 50-60Hz
Rated Fuse	Resettable PPTC 110VAC, 400mA
Communication	127 Units Max
Power Consumption	< 2W @ 24VDC

Environmental

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

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

Power	22 - 24 AWG
Analog Output	22 - 24 AWG

User Interface

Language	English
Optional Display	2.8" TFT
Indication	Green: Power (OK) / Yellow: Warning (Pre-Alarm) / Red: Danger (Alarm)

Safety & EMC

Safety	IEC 61010-1
Electromagnetic Compatibility	FCC
Compliance	CE, EMC, RoHS, REACH and WEEE Compliant

Sensors

Carbon Dioxide	CO2 (PPM) NDIR
Particulate Matter	PM1, PM2.5 & PM10 (ug/m3)
Volatile Organic Matter	VOC
Temperature	°F
Humidity	%RH