



GAS & SPECIALTY SENSORS

NETWORK COMPATIBLE INDOOR AIR QUALITY MONITOR IAQPOINT SERIES

DESCRIPTION

The IAQPoint Series provides indoor air quality monitoring of CO₂, temperature, and RH for demand control ventilation applications. The monitor can be programmed for BACnet, Modbus, or LON communication for easy installation and integration into existing building automation systems. The IAQPoint Series features a two-line LCD display and programmable setpoints for CO₂, humidity, and temperature. The unit is available for wall or duct mount installations and easily mounts to a standard electrical box.



IAQPT-DT-A-TRH-D

FEATURES

- Senses CO₂, temperature, and RH
- High accuracy
- BACnet, LON, or Modbus communication
- Menu driven operation
- User selectable gas detection range
- Easy calibration
- Backlit LCD
- Independent sensor operation

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SPECIFICATIONS

Supply Voltage	20-30 VAC, 50/60 HZ 18-30 VDC	Communication Protocol	BACnet MS/TP, LON, Modbus
Supply Current	200 mA @ 24 VDC	Response Time	CO ₂ : <60 seconds for 90% step change Humidity: 4 seconds Temperature: 30 seconds
Accuracy	CO ₂ : ± 3%, 0-2000 ppm; ±10%, 2000-10,000 ppm ±3% RH: 0% to 99% noncondensing Temperature: ± 0.9°F @ 77°F (0.5°C @ 25°C)	Operating Humidity	0% to 95% RH
Measurement Range	CO ₂ : 0-2000 ppm, 0-10,000 ppm (jumper selectable) Humidity: 0% to 99% noncondensing Temperature: -4° to 122°F (-20° to 50°C)	Operating Temperature	32° to 100°F (0° to 40°C)
Sensing Technology	CO ₂ : Non-dispersive infrared (NDIR) RH and temperature: Solid state	Enclosure	White ABS plastic
Display	Graphic LCD; two-line, alphanumeric	Dimensions	Enclosure: 3.9"H x 2.5"W x 1.2"D (9.9 x 6.3 x 3.0 cm) Duct probe: 2.1"L (5.3 cm), 0.5" (1.3 cm) diameter
Baud Rate	4800, 9600, 19200, 38400, 57600, 76800	Approvals	CSA C22.2 NO. 61010-1, CE
		Weight	Wall: 0.44 lb (0.2 kg) Duct: 0.66 lb (0.3 kg)
		Warranty	1 year

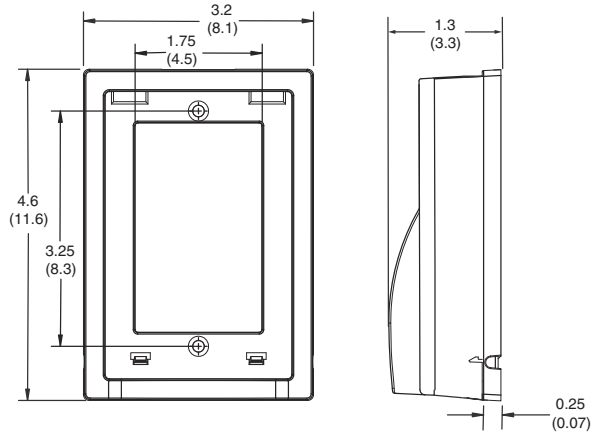
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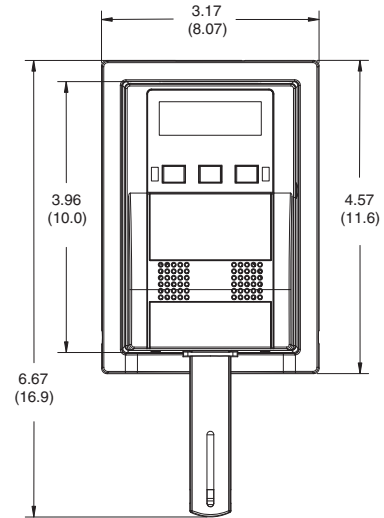
IAQPOINT SERIES



DIMENSIONS



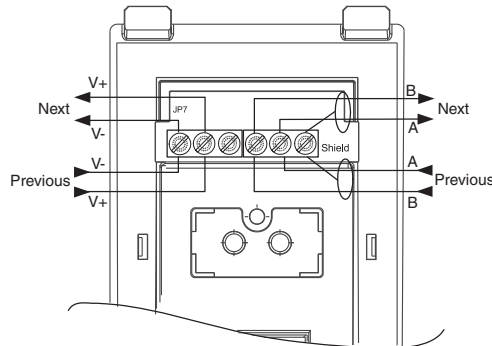
Wall Mount



Duct Mount

WIRING

This drawing applies to units configured with either Modbus or BACnet communication.



RS-485 COMMUNICATION
 Communication Wire Gauge:
 2-24 AWG (Belden 9841)
 Twisted and shielded cable
 2000 feet (600 m) per channel
 T-tap: 65 feet (20 m) / T-tap
 130 feet (40 m) total

Power and communication wires are connected from one unit to the next unit in the "chain", as illustrated in the drawing: the wires come in to the unit from the "previous" unit and can be wired from that unit to the "next" until the network is complete.

LON (TP/FT10) communication connections are not polarity sensitive. Please consult the Echelon documentation for further LON connection details (<http://www.echelon.com/support/documentation/manuals/routers/078-0167-01B.pdf>).

ORDERING INFORMATION

MODEL	DESCRIPTION
IAQPT-SM-B-TRH-D	CO ₂ , temperature, and RH transmitter, wall mount, BACnet MS/TP
IAQPT-SM-L-TRH-D	CO ₂ , temperature, and RH transmitter, wall mount, LON
IAQPT-SM-M-TRH-D	CO ₂ , temperature, and RH transmitter, wall mount, Modbus
IAQPT-DT-B-TRH-D	CO ₂ , temperature, and RH transmitter, duct mount, BACnet MS/TP
IAQPT-DT-L-TRH-D	CO ₂ , temperature, and RH transmitter, duct mount, LON
IAQPT-DT-M-TRH-D	CO ₂ , temperature, and RH transmitter, duct mount, Modbus