



AZ-AQDT

DUCT AIR QUALITY TRANSMITTER

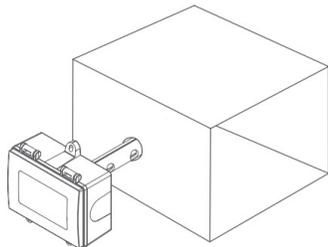
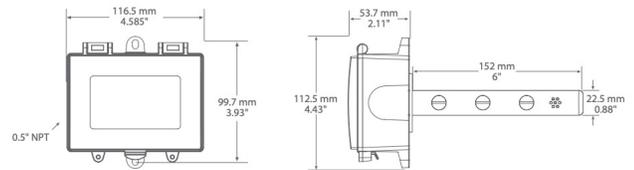
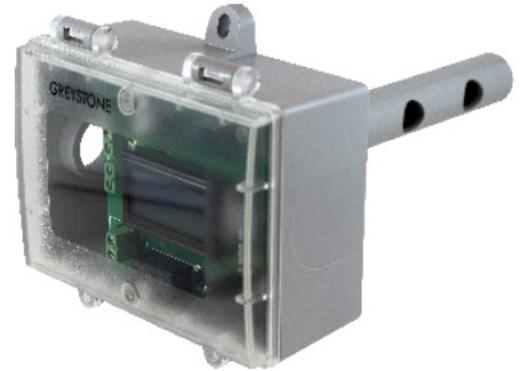
DESCRIPTION

The duct indoor air quality sensor uses an advanced MEMS metal oxide semiconductor sensor to detect poor air quality. The sensor reacts quickly to detect a broad range of VOCs such as smoke, cooking odors, bio-effluence, outdoor pollutants and from human activities. The sensor captures all VOC emissions that are completely invisible to CO2 sensors. A weatherproof polycarbonate enclosure is provided for ease of installation.

TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the product installation instructions.

The duct type sensor installs on the outside of a return air duct with the sampling tube inserted into the duct. Mount the sensor in an easily accessible location in a straight section of duct at least five feet from corners and other items that may cause disturbances in the air flow. Avoid areas with vibrations or rapid temperature changes. The enclosure provides mounting tabs for ease of installation.



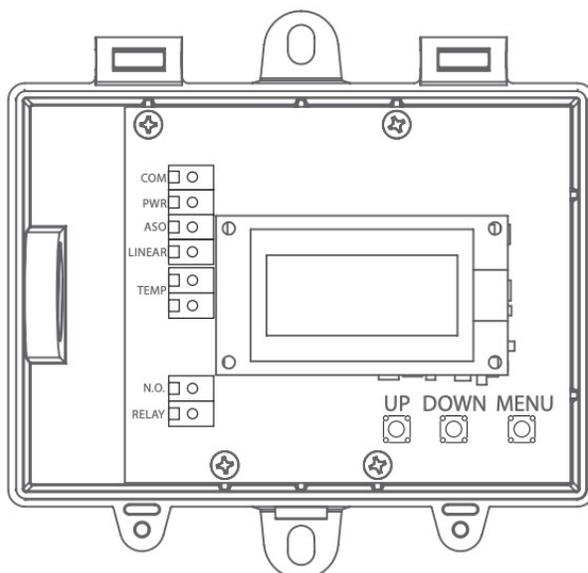
ACCESSORIES

INCLUDED WITH F STYLE ENCLOSURE



CABLE GLAND FITTING THREAD ADAPTER 1/2" NPT TO M16

WIRING INFORMATION



| TERMINAL | FUNCTION |
|----------|---------------------------------|
| PWR | Power Input |
| COM | Common |
| ASO | Analog Stepped Output 0-10 Vdc |
| LINEAR | Analog Output 0 – 5 or 0-10 Vdc |
| TEMP | Resistance Output |
| Temp | Resistance Output |
| Relay | Digital Output |

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516-256-3131



HVAC Manufacturer's Representative



AZ-AQDT

DUCT AIR QUALITY TRANSMITTER

SPECIFICATIONS

| | |
|------------------------------|---|
| SENSOR TECHNOLOGY | MEMS metal oxide semiconductor VOC sensor |
| MEASUREMENT RANGE | 450-2000 ppm CO2 equivalent or 0-100% (menu selectable) |
| DRIFT COMPENSATION | Automatic baseline correction |
| POWER SUPPLY | 20-28 Vac/dc (non-isolated half-wave rectified) |
| CONSUMPTION | 35 mA max @ 24 Vdc |
| INPUT VOLTAGE EFFECT | Negligible over specified operating range |
| PROTECTION CIRCUITRY | Reverse voltage protected, over voltage protected |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F), 5-95 %RH non-condensing |
| LINEAR OUTPUT SIGNAL | 0-5 / 0-10 Vdc (menu selectable) = 0-2000 ppm CO2 equivalent |
| ANALOG STEPPED OUTPUT SIGNAL | Three steps representing Good, Fair, and Poor air quality (each step is independently adjustable from 0-10 Vdc) |
| OUTPUT DRIVE CAPABILITY | 10,000 Ω minimum |
| PROGRAMMING AND SELECTION | Via internal push-buttons and LCD menu |
| WARM-UP TIME | 5 minutes |
| LCD RESOLUTION | 1 ppm / 1% |
| LCD SIZE | 35mm W x 15mm H x (1.4" x 0.6") alpha-numeric 2 line x 8 characters |
| LCD BACKLIGHT | Enable or disable via menu |
| WIRING CONNECTIONS | Screw terminal blocks, 14 to 22 AWG |
| DUCT PROBE | 152mm L x 22.5mm D (6" x 0.88") |
| RELAY OUTPUT | Form A contact (N.O.) 5 Amps @ 250 Vac, 5 Amps @ 30 Vdc for resistive load 2 Amps @ 250 Vac, 2 Amps @ 30 Vdc for inductive load |
| OPTIONAL TEMPERATURE SENSOR | Various thermistors and RTDs, 2 wire resistive output |
| ENCLOSURE | B: Grey polycarbonate, UL94-V0, IP65 (NEMA 4X) F: Same as B, with thread adapter (1/2" NPT to M16) and cable gland fitting |
| DIMENSIONS | 116.5mm W x 99.7mm H x 53.7mm D (4.58" x 3.93" x 2.11") |
| COUNTRY OF ORIGIN | CANADA |

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AZ-AQDT

DUCT AIR QUALITY TRANSMITTER

ORDERING

| | | |
|-----------------------------|--|--|
| PRODUCT | AQDT | Duct Air Quality Transmitter |
| ENCLOSURE | B F | Polycarbonate with hinged and gasketed cover Same as B, with thread adapter & cable gland fitting |
| OPTIONAL TEMPERATURE SENSOR | 00 02 05 06 07 08 12 13 14 20 24 59 | None 100 Ω Platinum RTD, IEC 751, 385 Alpha, thin film 1801 Ω NTC Thermistor, ±0.2°C 3000 Ω NTC Thermistor, ±0.2°C 10,000 Ω Type 3, NTC Thermistor, ±0.2°C 2.252K Ω NTC Thermistor, ±0.2°C 1000 Ω Platinum RTD, IEC 751, 385 Alpha, thin film 1000 Ω Nickel RTD, Class B, DIN 43760 10,000 Ω Type 3, NTC Thermistor, ±0.2°C c/w 11,000 shunt resistor 20,000 Ω NTC Thermistor, ±0.2°C 10,000 Ω Type 2, NTC Thermistor, ±0.2°C 10,000 Ω, 25°C, ±1%, B = 3435 ±1% (25/85) |

PART NUMBER

| |
|------|
| AQDT |
| |
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