

AIR QUALITY TRANSMITTER **AQDT Series**

The 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.

SPECIFICATIONS:

	15.
Sensing 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
	Reverse voltage protected, over voltage protected
Operating Conditions	0-50°C (32-122°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 KΩ minimum L
5	Via internal push-buttons and LCD menu
Warm-up Time	5 minutes
LCD Resolution	11
LCD Size	35 mm W x 15 mm H (1.4" x 0.6")
	alpha-numeric 2 line x 8 characters
	Screw terminal blocks, 14 to 22 AWG
	152 mm L x 22.5 mm D (6" x 0.88")
Weight	
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
	(trip point and hysteresis set via menu)
	Various thermistors and RTDs, 2-wire resistive output
Enclosure	Grey polycarbonate with gasket, UL94-V0 IP65 (NEMA4X)
	F style includes thread adapter (1/2" NPT to M16)
	and cable gland fitting
Country of Origin	Canada

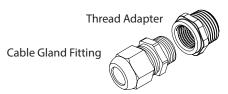
TYPICAL INSTALLATION:

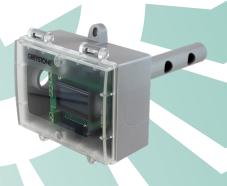
For complete installation and wiring details, please refer to the product installation instructions.

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.

Included with F style enclosure



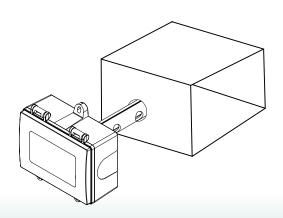


PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

ODEL	Product Description		
AQDT	Duct Air	t Air Quality Transmitter	
	CODE	Enclosur	e
	B F	Polycarbonate, with hinged & gasketed cover Same as B, with thread adapter & cable gland fitting	
		CODE	Sensor
		00 02 05 06 07 08 12 13 14 20	No Sensor Option $100~\Omega~Platinum~RTD,~IEC~751,~385~Alpha,~thin~film \\ 1801~\Omega,~NTC~Thermistor,~\pm0.2°C \\ 3000~\Omega,~NTC~Thermistor,~\pm0.2°C \\ 10,000~\Omega,~type~3,~NTC~Thermistor,~\pm0.2°C \\ 2.252K~\Omega,~NTC~Thermistor,~\pm0.2°C \\ 1000~\Omega,~Platinum~RTD,~IEC~751,~385~Alpha,~thin~film \\ 1000~\Omega,~Nickel~RTD,~Class~B,~DIN~43760 \\ 10K~\Omega,~type~3,~NTC~Thermistor,~\pm0.2°C~C/w~11K~shunt~resistor~20,000~\Omega,~NTC~Thermistor,~\pm0.2°C~C \\ 10,000~\Omega,~type~2,~NTC~Thermistor,~\pm0.2°C \\ 10,000~\Omega,~type~2,~NTC~Thermistor,~\pm0.2°C \\ \end{tabular}$

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



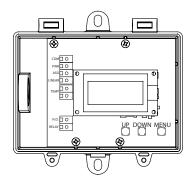








PCB DIAGRAM:





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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.