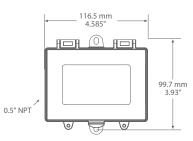
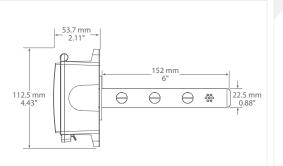


DUCT AIR QUALITY TRANSMITTER







AQDT SERIES

PRODUCT DESCRIPTION

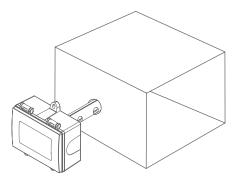
The duct indoor air quality sensor uses an advanced MEMS metal oxide semiconductor sensor to detect poor air quality. The sensor reacts quickly to detect a broad range of VOCs such as smoke, cooking odors, bio-effluence, outdoor pollutants and from human activities. The sensor captures all VOC emissions 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.

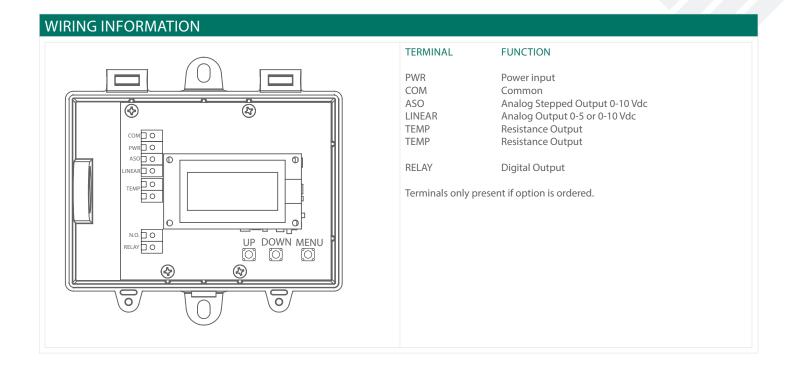
The enclosure provides mounting tabs for ease of installation.



SPECIFICATIONS			
SENSOR TECHNOLOGY	MEMS metal oxide semiconductor VOC sensor		
MEASUREMENT RANGE	450-2000 ppm CO ₂ 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	$0-5 / 0-10 \text{Vdc}$ (menu selectable) = $0-2000 \text{ppm CO}_2$ 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		







ORDERING			PART NUMBER
PRODUCT	AQDT	Duct Air Quality Transmitter	AQDT
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	None $100\ \Omega\ Platinum\ RTD,\ IEC\ 751,\ 385\ Alpha,\ thin\ film$ $1801\ \Omega\ NTC\ Thermistor,\ \pm 0.2^\circ C$ $3000\ \Omega\ NTC\ Thermistor,\ \pm 0.2^\circ C$ $10,000\ \Omega\ Type\ 3,\ NTC\ Thermistor,\ \pm 0.2^\circ C$ $2.52K\ \Omega\ NTC\ Thermistor,\ \pm 0.2^\circ C$ $1000\ \Omega\ Platinum\ RTD,\ IEC\ 751,\ 385\ Alpha,\ thin\ film$ $1000\ \Omega\ Nickel\ RTD,\ Class\ B,\ DIN\ 43760$ $10,000\ \Omega\ Type\ 3,\ NTC\ Thermistor,\ \pm 0.2^\circ C$ $10,000\ \Omega\ Type\ 2,\ NTC\ Thermistor,\ \pm 0.2^\circ C$ $10,000\ \Omega\ Type\ 2,\ NTC\ Thermistor,\ \pm 0.2^\circ C$ $10,000\ \Omega,\ 25^\circ C,\ \pm 1\%,\ B=3435\ \pm 1\%\ (25/85)$	



ns, Inc. Ph: +1 (506) 853-3057 Fax: +1 (506) 853-6014 eton, North America: 1-800-561-5611 1E 4G7 E-mail: mail@greystoneenergy.com

www.greystoneenergy.com