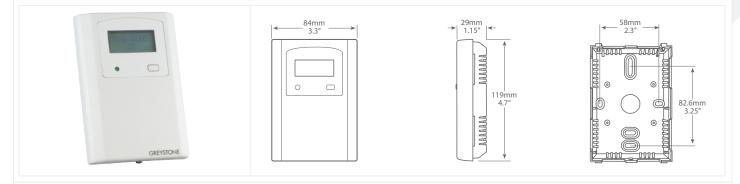


ROOM AIR QUALITY TRANSMITTER



COUNTRY OF ORIGIN

AIR41 SERIES

PRODUCT DESCRIPTION

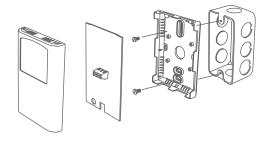
The AIR41 Indoor Air Quality Sensor uses an advanced MEMS metal oxide semiconductor sensor to detect poor air quality. The sensor reacts quickly to detect a broad range of VOCs such as smoke, cooking odors, bio-effluence, outdoor pollutants and from human activities. The sensor captures all VOC emissions that are completely invisible to CO2 sensors. The AIR4 provides a linear analog signal output of 0-5 or 0-10 Vdc for connection to a building automation system as well as an analog stepped output of 0-10Vdc. Optional features such as a temperature sensor, manual override and adjustible relay output are available.

TYPICAL INSTALLATION

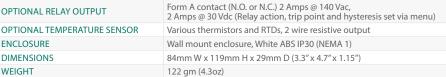
For complete installation and wiring details, please refer to the product installation instructions.

The AIR41 series can be mounted directly to a single gang electrical box or directly to a wall. The backplate includes many mounting hole configurations to allow for mounting on a variety of electrical boxes.

The basic AIR41 has a 4 wire configuration with a screw block terminal provided for connection to the Building Automation System.



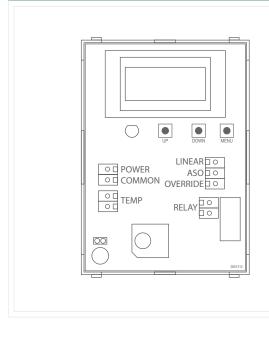
SPECIFICATIONS SENSOR TECHNOLOGY MEMS metal oxide semiconductor VOC sensor MEASUREMENT RANGE 450-2000 ppm CO, equivalent or 0-100% (menu selectable) DRIFT COMPENSATION Automatic baseline correction POWER SUPPLY 20-28 Vac/dc (non-isolated half-wave rectified) CONSUMPTION 35 mA max @ 24 Vdc INPUT VOLTAGE 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 Three steps representing Good, Fair, and Poor air quality ANALOG STEPPED OUTPUT SIGNAL (each step is independently adjustable from 0-10 Vdc) 10,000 Ω minimum OUTPUT DRIVE CAPABILITY 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 LED INDICATOR Tri-color (Good = Green, Fair = Blue, Poor = Red), enable or disable via menu WIRING CONNECTIONS Screw terminal blocks, 14 to 22 AWG OPTIONAL OVERRIDE SWITCH Front panel switch with FET output, 30 Vdc @ 50 mA max Form A contact (N.O. or N.C.) 2 Amps @ 140 Vac, **OPTIONAL RELAY OUTPUT** 2 Amps @ 30 Vdc (Relay action, trip point and hysteresis set via menu)



Canada



WIRING INFORMATION



TERMINAL	FUNCTION
PWR	Power input
СОМ	COMMON
ASO	Analog Stepped Output 0-10 Vdc
LINEAR	Analog Output 0-5 or 0-10 Vdc
OVERRIDE	Digital Output
*TEMP	Resistive Temperature Sensor
*TEMP	Resistive Temperature Sensor
RELAY	Relay Output
RELAY	Relay Output
*Terrestreele archi	evenue if entire is eveloped
*Terminals only	present if option is ordered.
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ORDERING			PART NUMBER
PRODUCT	AIR41	Room Air Quality Monitor, 0-2000ppm CO ₂ Equivalent	AIR41
LCD DISPLAY	0 1	Concealed Viewable	
LED INDICATOR, TRI-COLOR	0 1	Concealed Viewable	
SENSOR	T2 T5 T6 T7 T8 T12 T13 T14 T20 T24 T59	100 Ω Platinum RTD, IEC 751, 385 Alpha, thin film 1801 Ω, NTC Thermistor, ±0.2°C 3000 Ω, 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 10K Ω, type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor 20,000 Ω, NTC Thermistor, ±0.2°C 10,000 Ω, type 2, NTC Thermistor, ±0.2°C 10,000 Ω, type 2, NTC Thermistor, ±0.2°C	
OPTIONS (MULTIPLE SELECTIONS CAN BE MADE, LEAVE BLANK IF NO OPTION REQUIRED)	S R	Pushbutton momentary switch - N.O. Relay output	

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



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