

# SUBMITTAL

## Air Quality Monitor

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
AIR300	Air Quality Monitor

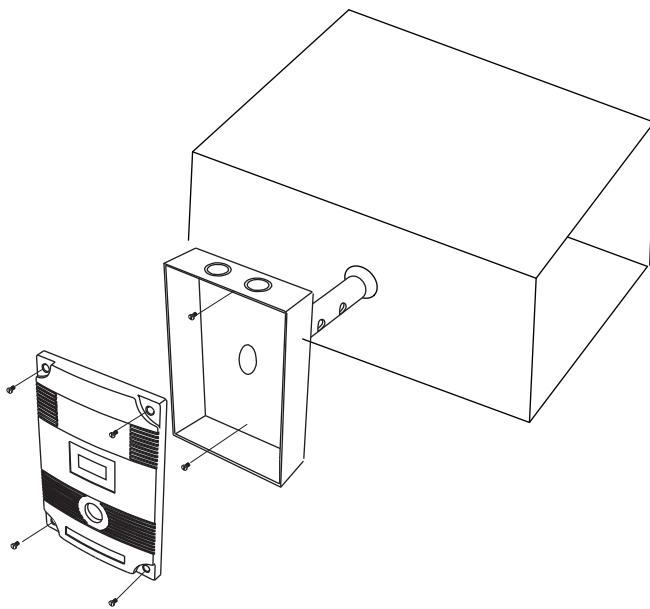
CODE	Enclosure
AE	Executive Space c/w 0-10 Vdc ASO Output
D	Duct c/w 0-10 Vdc ASO Output

CODE	Optional Outputs
-	Analog Stepped Output Only (no designation)
R	ASO and Relay Outputs
A	ASO and Analog Outputs
AR	ASO, Analog and Relay Outputs

AIR300	D	AR
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

**EXAMPLE: Air Quality Duct c/w ASO, analog and relay outputs**



AIR300D

## Part Number:

The AIR300 series uses a tin dioxide semiconductor sensor to detect oxidizable gases and is specifically designed to have high sensitivity to gaseous organic materials which are components of indoor air pollutants. The AIR300 may be used as either a stand-alone controller to detect levels of pollution and operate a clean-air damper directly, or it may be used as a monitor where the analog output signal is transmitted to the Building Automation System for further processing. It is available in either a decorative wall mount enclosure or in a duct mount version.

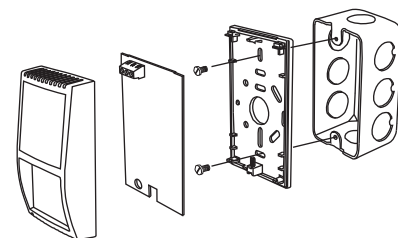
Measurement	Solid State TGS-800 VOC Sensor
Sample Method	Diffusion or flow through, samplertube for duct
Power Supply	20 - 30 Vac/dc
Consumption	100 mA @ 24 Vdc, 220 mA @ 24 Vac, 6 VA max.
Input Voltage Effect	Negligible over specified operating range
Protection Circuitry	Reverse voltage, protected and output limited
Operation Conditions	0°-40°C (32°-104°F), 0-95% RH non-condensing
Standard Output Signal	Analog Stepped Output (ASO) in four steps representing OK, Low, Medium and High pollution levels (each step is independently adjustable from 0 - 10 Vdc)
Optional Output Signal	Linear output representing 0 - 100% pollution level, jumper selectable for either 0 - 5 or 0 - 10 Vdc or 4 - 20 mA, the current signal is generated by the sensor (active)
Output Drive Capability	550 ohm max for current output, 10k ohm min for voltage output
Optional Relay Output	One Form C contact (NO and NC), status LED, 5 amps @ 250 VAC, 5 amps @ 30 Vdc, p.f.=1
Display	5 LED's indicating pollutin level, operational mode and programming values
Wiring Connections	Screw terminal block (14 to 22 AWG)

### Installation:

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

The AIR300AE series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from wall temperatures.

The AIR300D is installed through the side of the duct, and fastened securely to the duct through the mounting holes provided.



AIR300AE



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ACCURACY BY DESIGN

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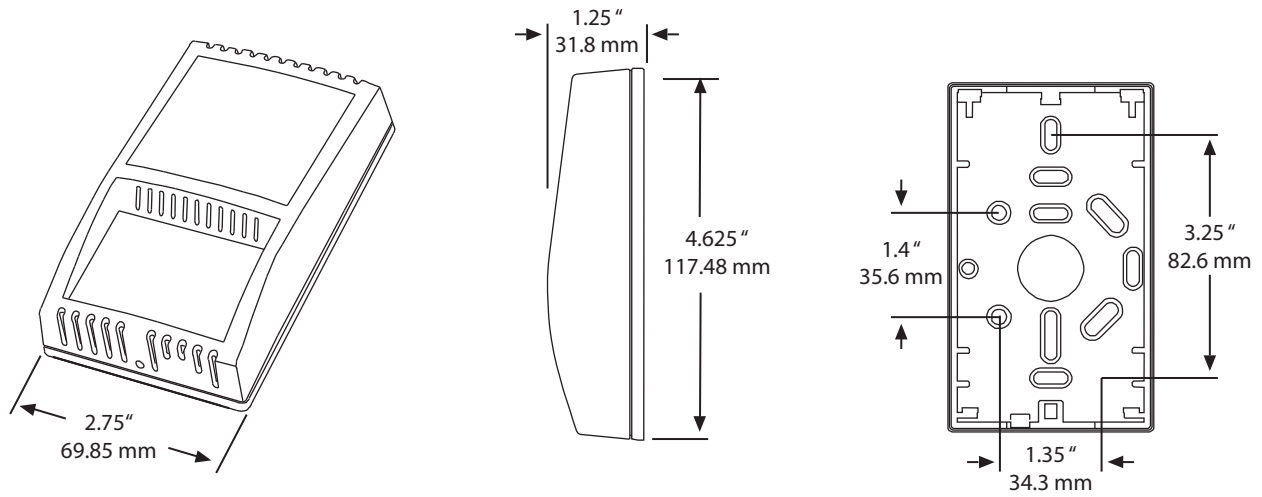
**RoHS**  
COMPLIANT



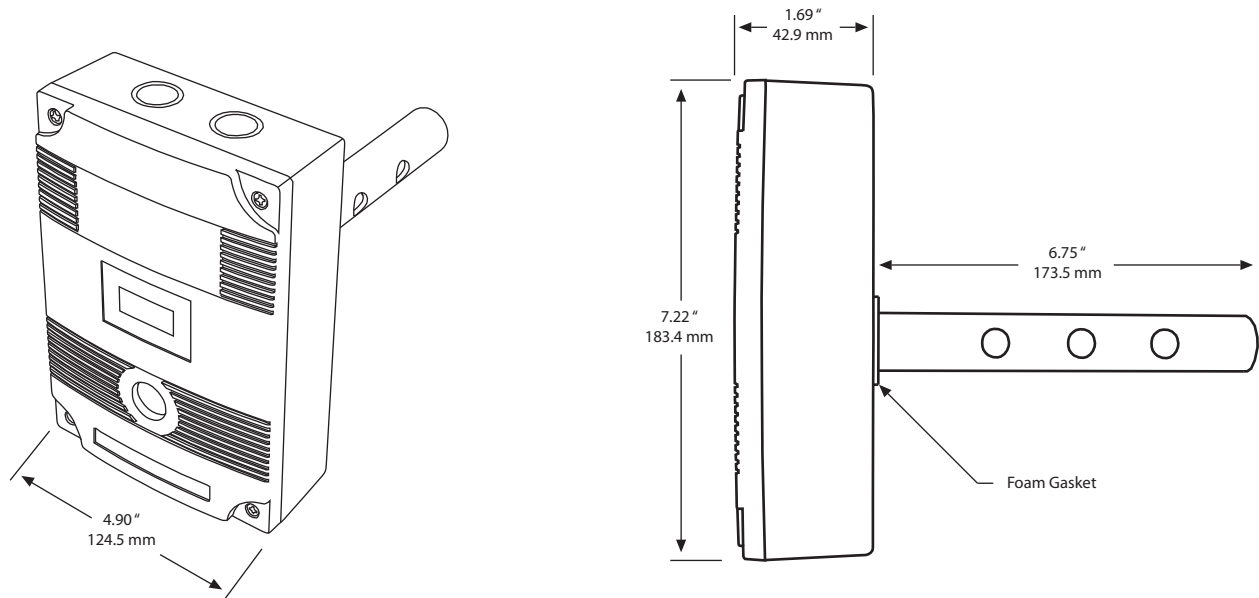
## Dimensions:



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## Executive Enclosure



## Duct ABS Enclosure