



VOC

Volatile Organic Compound



Room



Duct

VOCs are emitted as gases from certain solids or liquids, such as building materials and furnishings, office equipment, cleansers and disinfectants, etc. These types of contaminants directly affect indoor air quality and occupant comfort. Measuring and communicating VOC levels back to the BAS will help users adjust ventilation to maintain proper IAQ levels. These units utilize a high-performance metal oxide sensor and will output TVOC levels in a range from 0-1000 ppb. All units come equipped with both analog and RS485 Modbus RTU outputs easily interface into existing BAS systems.

Applications: VOC Measurements for IAQ (indoor air quality)

The VOC Series is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, workaci.com.

PRODUCT SPECIFICATIONS

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| Supply Voltage: | 16-28VAC/16-35VDC (Reverse Polarity Protection) |
| Supply Current: | LCD: 50mA Non-LCD: 33mA |
| Sensor Type: | Metal Oxide Semiconductor |
| Sensing Range: | 0-1000 ppb TVOC (Isobutene) |
| Output/Load Resistance: | 4-20 mA: 500 Ohms maximum (Default) 0-10 VDC: 2K Ohms minimum |
| Communication Protocol: | Modbus RTU; EIA RS-485 |
| Relay: | 1 SPDT, N.O. rated 3A @ 30VDC, 3A @ 250VAC |
| Relay Trip Point: | 230 ppb |
| Response Time: | <5 seconds |
| Warm Up Time: | 15 minutes |
| Connection/Wire Size: | Screw Terminal Blocks/16 AWG (1.31 mm ²) to 22 AWG (0.33 mm ²) |
| Terminal Block Torque Rating: | 0.45 lb-in (0.5 Nm) nominal |
| Operating Temperature Range: | 32 to 122°F (0 to 50°C) |
| Storage Temperature Range: | -4 to 140°F (-20 to 60°C) |
| Operating Humidity Range: | 10 to 95% RH, non-condensing |
| Enclosure Protection: | IP30 (Room) IP65 (Duct) IP30 (Probe) |
| Enclosure Material/UL Flammability: | ABS Plastic/UL94V-0 |
| Weight: | Room: ~190g Duct: ~270g |
| Approval: | CE |



