

Fixed Indoor VOC Detector

Install an online VOC Detector to measure the Organic Compounds in Indoor applications. An Industry accredited device which complies all the mandatory requirement for Audit, this instrument can easily be integrated with BMS System with its 4-20mA analog signal. The VOC sensor used is a MOX (metal oxide) based gas sensor. A similar Duct VOC detector model helps in analysing the Indoor Air Quality in demand control ventilation systems & accurately transmits the VOC concentration levels. For the specifications given below, ethanol in clean air has been used as proxy gas for typical indoor air events. Easy calibration and mounting option makes this a user friendly device.



The VOC detector has a 2 line LED display & gives 2 individual analog 4–20mA outputs each for the VOC concentration and temperature in Deg C. The VOC measurement range is from 0 to 500 PPM (Ethanol in clean air is used as proxy gas) & robust algorithm makes the VOC detector sensitive to most VOC gases typically present in indoor environments. An in-built buzzer alarm, freely programmable from the front keys is available for both VOC level alerts & temperature level alerts, along with an acknowledgement key on the front facia. An optional RS 485 Modbus communication is available for connecting to BMS/EMS in multi-drop topology.



Applications



Factories



Hotels



Schools



Paints



Pesticides



Technical Specifications

Measuring Principle	Metal Oxide (MOX) based VOC sensor sensitive to most VOC gases present in indoor environments
Measuring Range	0 to 500 PPM (Ethanol in Clean Air)
Resolution	1PPM least count
Display	2 Line 4 digit 7 Segment LED Display of height 0.56
Mounting	Wall mounting ABS Plastic enclosure with wall bracket
Switch on Behaviour	Time until reliably detecting VOC events 60 seconds
Sensor Working Life	> 4 years 10–35 Deg. C& 40–80% RH for general applications
Accuracy	Max of +/- 15 PPM @ 25°C and 50% RH in zero air
Analog Outputs	2x4–20 mA Outputs. 1 Each VOC & Temperature
Communication	Optional RS 485modbus RTU protocol communication
Power Supply	12–24VDC, by the way of 110–230 VAC, 50–60Hz Adaptor provided along with (Fits well in USA and European countries Also)
Operating Conditions	Temperature: –10 to 50°C Humidity: 0 to 90% RH (strictly non condensing)
Enclosure Type	Wall Mounting Type IP54 Rating compliant ABS Plastic Body
Enclosure Size	Electronic Enclosure: 120(W) x80(H) x55(D) mm
Product Conformance	CE Marking
Supply Scope	1 Unit of VOC Detector, Power Adapter, Instruction Manual, Factory Calibration Certificate

Temp | Humidity | Pressure | Differential Pressure | Vacuum | Gases | Particle | Air Flow
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux | Distance | Vibration

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