

Online VOC Monitor



**Vasthi Online VOC Monitor with
Control Unit**

Online VOC Monitor

VASTHI VOC Field gas Transmitters continuously monitors for dangerous concentrations of gases. The linearize 4-20 mA transmission can interface directly with any receiving instrument starting from indicators, controllers to large control systems. The standard system consists of a compact electronic module housed in a Weatherproof or explosion proof Metallic or Polyester box with an application specific sensor. This state of the art transmitter is carefully designed with and manufactured with Industrial grade Components for reliability accuracy and long life. It is certified for use in hazardous areas Class 1, Division 1, Group B, C & D. (IIA, IIB or IIC) apart from being available in weatherproof Enclosure. Transmitters are equipped with micro controller and are heavily featured with self-diagnostics, Auto calibration through embedded Software, can be done at site. RS 232/485 output with baud rates of 2400 bps is available as an option.

Description:

The VOC – 900 Photo Ionization Detector (PID) provides the ultimate flexibility in on line detection of Volatile Organic Compounds (VOCs). It utilizes a plug-in detector containing 10.6 eV lamp to monitor potentially hazardous compounds like Methyl Bromide, Carbon Disulfide, Hydrazine at levels as low as 10 parts per billion (ppb).

Response factors can be embedded to tune the display reading to your particular target gas or your most commonly encountered hazardous.

Standard features include backlit LCD display, Low/High, Visual/Audible Alarm Indicator & In-built Sampling Pump.

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The VOC-900 also offers simple auto calibration.

It's available in two ranges 0 – 20 PPM (Model VOC-900-1) and High Range 0 – 2000 PPM (Model VOC-900-2). High ranges can be configured upto 5000 PPM.

The monitor is based on a photo ionization detector (PID). The sample gas is exposed to an ultraviolet light from a lamp. The light emitted by the lamp ionizes the targeted gases in the sample so they can be detected by the instrument and reported as a concentration. Chemicals such as VOCs with an ionization potential <10.6 eV will be detected by photo ionization.

VOC Partial Gas List

Acetone	Isobutylene
Arsine	Isopropanol
Ammonia	Methylamine
Benzene	Methyl Bromide
Carbon Disulfide	Methyl Ethyl Ketone
Chlorobenzene	Methyl Mercaptan
Dichlorobenzene	MTBE
Dichloroethylene	Naphtha
Dioxane	Phosphine
Dimethylformamide	Styrene
Ethanol	Tetrachloroethylene
Ethylbenzene	Tetrahydrofuran
Ethylene Oxide	Toluene
Ethyl Ether	Trichloroethylene
Gasoline	Trimethylamine
Hexane	Vinyl Acetate
Hydrazine	Vinyl Bromide
Xylene	

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Applications

- 1) Confined Space Entry Testing
- 2) Leak Assessments
- 3) Arson Investigations
- 4) Hazardous materials Response Monitoring.
- 5) Refineries and petrochemical plants
- 6) Power Plants
- 7) Painting and coating operations
- 8) Air Quality

Services by Vasthi: -

- Evaluation
- Custom Designs
- Calibration & Certification
- Repair
- Plant visiting
- Sampling Systems

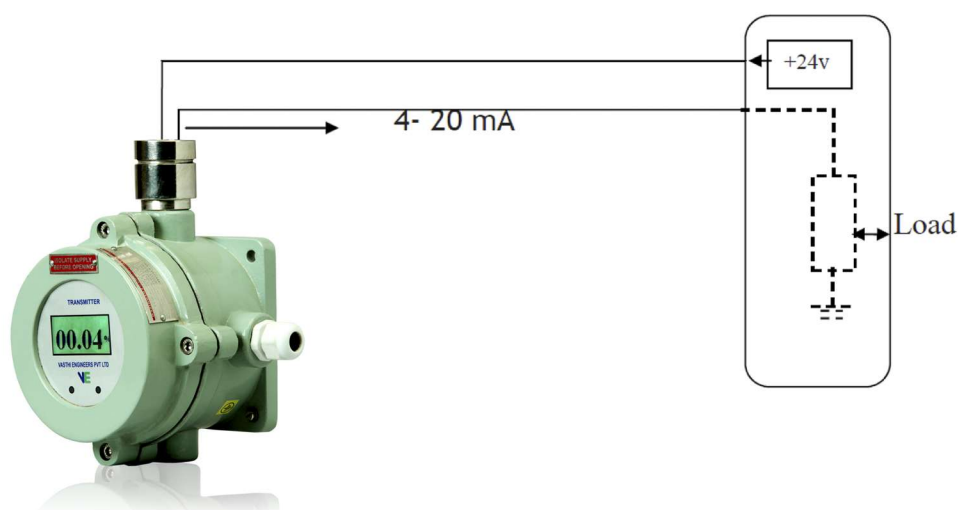
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Transmitter Interfacing Drawings:-

Transmitter Interfacing Drawings:-

2 wire Transmitter

Customer unit



A Compact Rugged & Intelligent Instrument for...

- AMBIENT MONITORING
- PROCESS OR EMISSION GAS ANALYSIS
- PRE - ENTRY CHECK
- FUEL COMBUSTION OPTIMIZATION
- QUALITY CONTROL

Specifications for 3 wire transmitter:-

Response Time < 30 seconds

Accuracy 2% Full Scale Operating

Voltage 7-30 Volt DC Operating

Temperature 0-55 C Terminations

PCB mounted terminal blocks

Display Warn & Alarm Status LED Indicator

Inbuilt 0.5" LCD (Optional)

Analog Output 4 - 20 mA Linear/ 0-1 V DC

Digital Output Two auxiliary contact for warn & alarm

Contact rating 30 VDC/2A

Communication RS232/RS485 (Optional)

Power Consumption 3.6 W max.

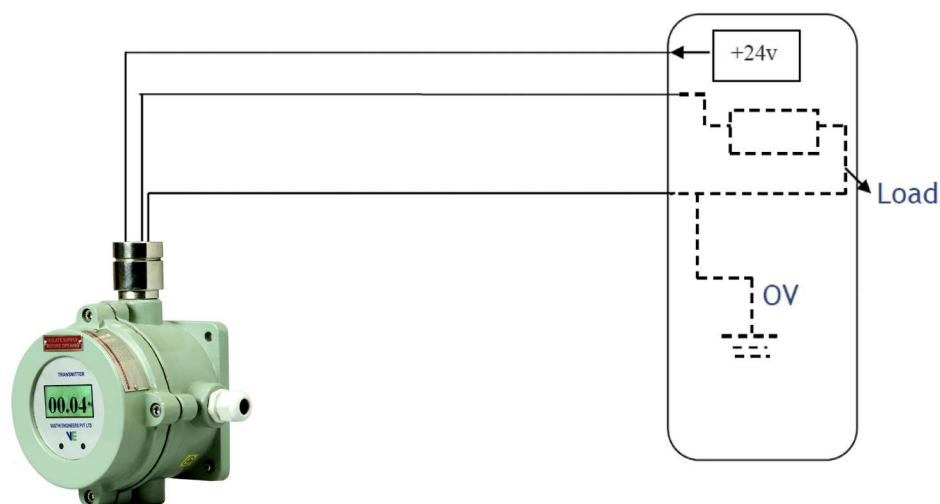
Max. Load impedance 350 - 650 Ohms (7V - 30V)

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Degree of Protection IP -65 explosions Proof
Transmitter Interfacing Drawings:-

3 wire Transmitter

customer unit



Additional Features (OPTIONAL)

Computer Interface: RS-232

Data Logger: 1 Megabyte, Non-Volatile Memory

Control unit Specifications

Specifications

Sensor Principle:PID

Display: Digital

Response Time : <10 seconds at 95% variant

Working Temperature: - 5 Deg. C to 55 Deg. C

Storage Temperature: - 20 Deg. C to 45 Deg.C

Temperature Range: 0 - 55 Deg. C.

Warranty: One year



VASTHI INSTRUMENTS

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