

FIXED GAS MONITOR / TRANSMITTER

DEVICE DESCRIPTION

DPM Instruments Pvt. Ltd. is a manufacturer of microcontroller based fixed gas detection Transmitter. It continuously monitor hazardous concentration of gases which include Flammable (Risk of fire), Toxic (Risk of Poisoning) and Asphyxiate (Risk of suffocation). These Transmitter are equipped with micro controller and are optionally features with self-Diagnostic auto calibration function through embedded software. The output transmission can interface with any receiving system/ instruments. The transmitter consist of a compact Electronic module housed in a weather proof or explosion proof metallic. These transmitter are designed to provide high reliability, accuracy and long life.



FEATURES

- Explosion or weather proof
- Standard 4-20mA Output
- Relay Output
- 3 wire gas Transmitter
- MODBUS Communication Through RS-485
- Easy to Calibrate
- Easy Sensor replacement and Interface with hardware

TYPES OF GAS DETECTION

Combustible gas		Toxic Gas Detection		Oxygen gas detection (Asphyxiate)	
Gases	Range and Unit	Gases	Range & Unit	Gases	Range and Unit
All Combustible gases for example Propane, Butane, Methane, LPG, LNG, PNG and Hydrogen etc.	<ul style="list-style-type: none">➤ 0-100% LEL➤ 0-100% V/V➤ PPM	All toxic gases for Example NH ₃ , CO, EO, Cl ₂ , CO ₂ , Br ₂ , H ₂ S, NO, SO ₂ and HCN etc.	<ul style="list-style-type: none">➤ In PPM➤ mg/m³	O ₂	<ul style="list-style-type: none">➤ 0-25% V/V➤ 0-100% V/V



DPM INSTRUMENTS PVT. LTD.

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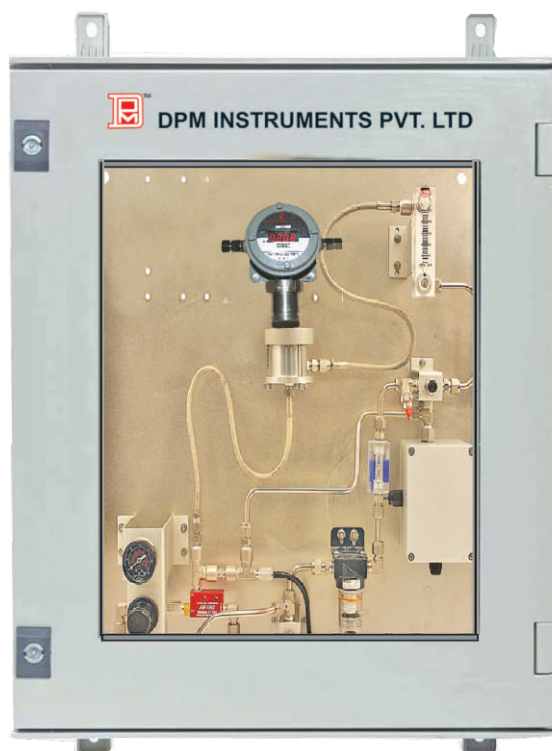
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TECHNICAL SPECIFICATIONS

Types

Detectable gases	: Combustible, Toxic and Asphyxiate (Risk of suffocation).
Sensor technology	: All (for Example Catalytic, Semiconductor, NDIR, Electrochemical)
Display	: ● 4-Digit Seven Segment Display ● Blind (no display)
Range unit	: %V/V, %LEL, PPM and mg/m3
Response time	: Less than 10 sec
Accuracy	: $\pm 2\%$ FSR
Linearity	: $\pm 2\%$ FSR
Zero drift	: $\pm 2\%$ FSR
output	: 4-20mA (load up to 600 ohms) standard output / Relay / RS-485
Alarm	: LED Indications & buzzer (optional)
Power supply	: +24VDC
Operating temperature	: 0-60 degree Celsius
Relative Humidity	: 0 - 95% RH
Housing / Case	: Flame proof / Weather proof
Optional Accessories	: Calibration Cap, buzzer
Application	: All types of gas Detection in process plants & industries & commercial.

SAMPLING SYSTEM



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GAS ANALYZER



Connected Via RS-485



Big Seven Segment Display

4-20 mA current Input from Gas transmitter with Sampling System



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