

# Wireless Gas Transmitter



# Wireless Gas Transmitter

VASTHI 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, GroupB, 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 (in case of toxic, O<sub>2</sub>, combustible gases only) through embedded Software, can be done at site. RS 232/485 output with baud rates of 2400 bps is available as an option

## Vasthi Multi Gas detection System

**individually or Combined we can provide gas detectors for the following gases.**

- OXYGEN
- COMBUSTIBLE GASES
- LPG
- HEXANE
- HYDROGEN
- CARBON MONOXIDE
- HYDROGEN SULPHIDE
- CHLORINE
- SULPHUR DIOXIDE
- AMMONIA
- HYDROGENCHLORIDE
- HYDROGEN CYNIDE
- NITRIC OXIDE
- NITROGEN DIOXIDE
- ETHYLENE
- OXIDE
- PHOSPHINE
- PHOSGENE
- OZONE
- AND MANY MORE

# Wireless Gas Transmitter

The above mentioned Gas detectors can be used to detect combustible, flammable and toxic gases as well as oxygen depletion. This type of device is used widely in industry and can found in a variety of locations such as on oil rigs, to monitor manufacture processes and emerging technologies such as photovoltaic.

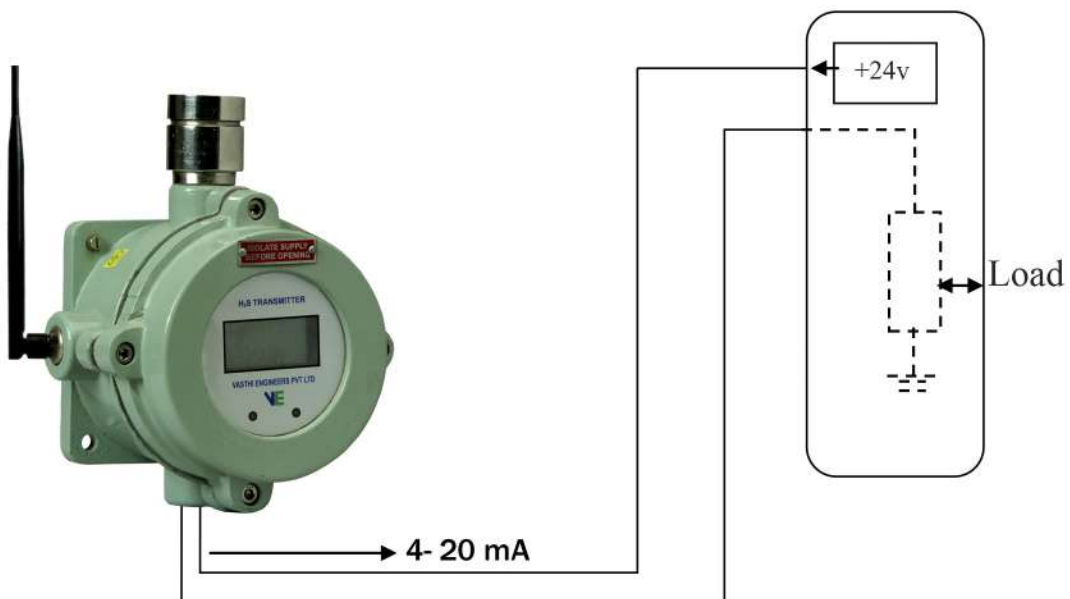
## Specifications for 2 wire transmitter:-

Detection Principle	Application Based
Response Time	< 5 seconds
Zero drift	0.2% Full Scale
Accuracy	1% Full Scale
Operating Voltage	20-30 Volt DC
Operating Temperature	0-50 C
Terminations	PCB mounted terminal blocks
Display	Inbuilt 0.5" LCD ( Optional)
Output	4 - 20 mA Linear
Max. Load Impedance	650 Ohms
Degree of Protection	IP -65 explosion Proof

## Transmitter Interfacing Drawings:-

### 2 wire Transmitter

### Customer unit





# Wireless Gas Transmitter

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:-

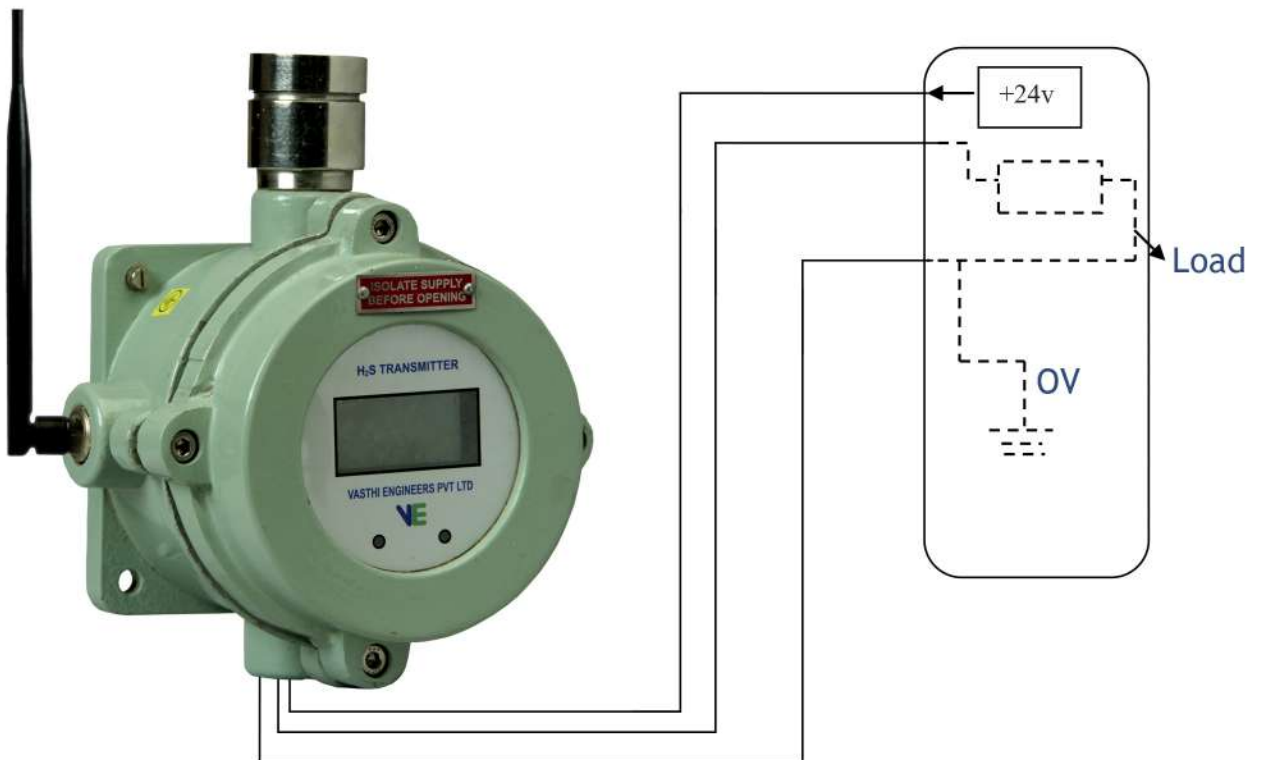
Detection Principle	Application Based
Response Time	< 5 seconds
Zero drift	0.2% Full Scale
Accuracy	1% Full Scale
Operating Voltage	7-30 Volt DC
Operating Temperature	0-50 C
Terminations	PCB mounted terminal blocks
Display	Warn & Alarm Status LED Indicator Inbuilt 0.5" LCD (Optional)
Analog Output	4 - 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)
Degree of Protection	IP -65 explosion Proof

# Wireless Gas Transmitter

Transmitter Interfacing Drawings:-

3 wire Transmitter

customer unit



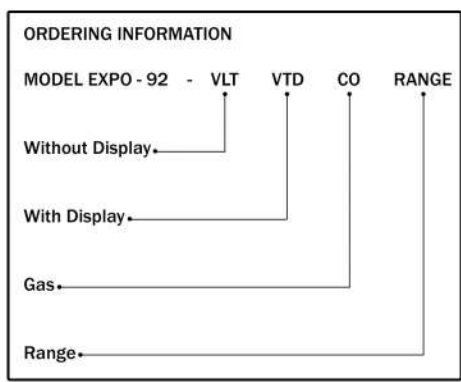
## Wireless Gas Transmitter

Services by Vasthi: -

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

### TECHNICAL SPECIFICATION

Gases & Ranges										
Gases	Oxygen				Hydrocarbon, Hydrogen					
Range	0-25%				LEL	PPM	% age			
Detection Principle	Electrochemical				Catalytic Combustion	Semiconductor Electrochemical	Thermal Conductivity			
Gases	H2S	CO	SO2	H2	HCHO	HCL	HCN	NO2	N2H4	Co2
Range	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%
Max.	1000	250	2000	500	10	200	200	15	1	100%
Min.	5	0	3	10	3	5	10	3	0	0.3
Detection Principle      Application Based Electrochemical Or Semiconductor										
*The minimum & maximum ranges and the gases indicated are intended as a guide for full scale detection.										
Response Time	:< 2 seconds									
Zero	:0.2% Fs half yearly									
Linearity	:± 2% Fs									
Accuracy	:± 1%									
Repeatability	:± 2%									
Operating Voltage	:24 Volt DC									
Operating Temperature	:0-50 °C									
Analog Output	:4-20 mA / 0.5v									
Certification	:Exproof / Intrinsically Safe									
Digital Output	:RS 232 / Intrinsically Safe									
Relay Output	:NO + NC									
Weight	:2.5 kg									
Operating Humidity	:0-95% RH									
Mounting	:Integral mounting plate with 4x mounting holes suitable for M8 bolts									



## VASTHI INSTRUMENTS

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