

COMBUSTIBLE GAS SENSOR (0-100% LEL)

PRODUCT DESCRIPTION

The gaZsens Ex Combustible Gas Sensor with transmitter having measuring range of 0-100% LEL. Model gaZsens Ex is certified for flameproof Ex'd' & weather proof by CIMFR, Dhanbad (Formerly known CMRI), to be used in hazardous area for the detection of flammable gases. The detection is via a single pair of catalytic beads which provide reliable and stable detection. The gaZsens Ex combustible gas sensor having typical lifetime of five years, with a three-wire 4-20 mA output following the industry standard.

FEATURES:

- ◆ CIMFR certified. Designed to flameproof as per IS 2148:2004(IEC60079-1/2001) & Weatherproof as per IS 12063-1987(IEC 60529-1989) for use in hazardous area application
- ◆ IP 55 sensor housing with a choice of threads. Flexibility for all installations
- ◆ Direct replacement for sensor filament
- ◆ Poison resistant catalytic beads. Proven, fast, reliable sensing technology with a typical 5 year lifetime.

APPLICATIONS:

- ◆ Offshore, onshore, petrochemical and chemical industries
- ◆ Water treatment; semiconductor fabrication
- ◆ Gas processing plants
- ◆ Compressor stations
- ◆ LNG / LPG plants
- ◆ Sewage & Water treatment plants
- ◆ Gas Turbines
- ◆ Pharmaceutical & Steel Industries

ACCESSORIES:

- ◆ Weather protection; collecting cone inclusive of remote gassing nozzle; sample flow housing; calibration test kits, splash guard etc.

MODEL: gaZsens Ex
Make: PPS



General Specifications

Gas and Range:	Combustible gases; 0 100%LEL
Type of Sensor:	Catalytic Combustion type
Operating Temperature:	-10 to +50°C
Storage Temperature:	-40 to +70°C
Operating Humidity:	
Continuous:	20 to 90% RH (non-condensing)
Effect of Humidity	No Effect
Operating Pressure:	Ambient
Warm-up Time:	< 5 minutes
Response Time at 20 Deg.C:	T90< 10 sec
Linearity:	< ±5% FSS
Operating Life:	5 years (typical)
Storage Life:	Unlimited
Long Term Zero Drift	< ±5% FSS/month
Long Term Span Drift:	< ±5% FSS/month
Power requirement of Sensor	2.2 VDC @ 200mA/ 300mA(+/-0.1VDC & +/- 10mA)
Supply of Transmitter:	24 VDC @ 300mA
Signal Output of Transmitter:	4 20 mA (Non- Isolated)
Enclosure for Gas Sensor:	Flameproof Ex'd' as IS 2148:2004(IEC60079-1/2001)
Construction Materials:	SS 316L
Enclosure for Transmitter:	Flameproof Ex'd' as IS 2148:2004
Weight:	Max. 500 gm
Certification Details:	EExdIIC T4
Type of Ingress Protection	IP 55 for sensor housing & IP 65/66 for FLP enclosure
Certifying Body:	Central Institute of Mining & Fuel Research (Formerly CMRI)
Approvals	"ISI" Marked from Bureau of Indian standards(BIS) Approved for use in Explosive Area under License from "Chief Controller Of Explosives, Nagpur (CCOE).
Warranty:	Two Years

Note: We reserve the rights to modify the design & specs or stop the production of above said system