

Toxic Gas Sensor Head

PRODUCT DESCRIPTION

Model gaZsens Tx is dual safety device having combination of flame proof, weather proof certified (Ex'd') sensor housing & intrinsically safe (Exia) transmitter by CIMFR, Dhabad (formerly known as CMRI), to be use in hazardous area for detection of Toxic gases like H₂S & others. The model gaZsens Tx toxic gas sensor with transmitter having ranges 0-20/50/100 ppm. The detection is via electrochemical cell technology. This provides reliable and stable detection of toxic gases like Hydrogen Sulphide. The gaZsens Tx having two-wire 4-20mA analogue output following the industry standards.

The gaZsens Tx is designed to provide continuous monitoring of atmosphere for potentially hazardous gas leaks. gaZsens Tx models are available for detecting a various gas types & various gas concentration ranges. Gas transmitters are housed in flameproof enclosure, which generates a 4-20 mA output signal that is proportional to the concentration of target gas. These transmitter are intrinsically safe.

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
- ◆ Electrochemical cell sensing technology. Proven, fast, reliable with a typical life of 2 years
- ◆ Easy maintenance. Exchangeable electrochemical cells while powered

APPLICATIONS:

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

ACCESSORIES:

- ◆ Weather protection; sample flow housing, splash guard, calibration test kits, etc

Model: gaZsens Tx
TOXIC GAS SENSOR (H₂S: 0 20/50/100 PPM)



General Specifications

Gas and Range:	Toxic Gas likes H ₂ S, CO & others: 0-20; 0-50; 0-100ppm
Operating Temperature:	-20°C to +50°C
Operating Humidity:	
Continuous:	20 to 90% RH (non-condensing)
Intermittent:	10 to 99% RH (non-condensing)
Operating Pressure:	Atmospheric ± 10%
Warm-up Time:	< 3 minutes
Response Time:	Different for different Gas Sensors
T20:	<6 sec
T50:	<15 sec
T90:	< 25 sec
Supply:	12 to 32Vdc; 0.9 Wmax
Signal Output:	4-20 mA (Non - Isolated)
Linearity:	< ±5% F.S.D
Operating Life:	2 years (typical)
Storage Life:	6 months
Stability (zero)	
With time:	<±2% F.S.D. /year
With temperature:	<±5% F.S.D.
With humidity:	<±10% F.S.D
Stability (span)	
With time:	<±2% F.S.D. /year
With temperature:	<±20% F.S.D.
With humidity:	<±10% F.S.D
Weight:	225g
Construction Materials:	SS 326L
Type of ingress protection:	IP 55 for sensor housing & IP 65/66 for FLP enclosure
Certification Details:	EExd ia IIC T4 -55 to 65°C

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