

## Industrial Gas Leak Detector TS21I-IR-HC



### Certifications



CCOE (PESO)

### Product Description:

TS21I-IR-HC gas detector is suitable for all Hydrocarbon gases. Application area of this detector is Refineries and Petrochemical Plants, Oil and Gas , LPG station, Chemical and Pharma Industries, Fertilizer and Power plants, Gas Boiler, and Spray-Paints etc where gas leakage is possible. It reads the gas concentration in Air and transmits to a detection panel over digital bus as well as it shows LEL level on display. IR type of gas sensor is used in this detector. This sensor provides good reproducibility, good performance against changes in atmospheric temperature and humidity. It has long life-span and easy operation. Detector have provision to set Two alarm levels of warnings (High & Low).

PFC Relay output is provided and this output can be connected to the conventional Gas Detection Panel OR SCADA system.

For BMS connectivity detector have provide **RS485** output.

**Infrared Sensor** is used in this model which does not required calibration frequently.

Additionally 4-20mA and Selectable 0-5 V & 0-10V Analog output could be also available.

Enclosure used is suitable for Zone 1 & Zone 2 hazardous areas.

**Note** : Enclosure depicted above is indicative. Specs subject to change without notice.



## Industrial Gas Leak Detector TS21I-IR-HC

### Product Features & Specifications:

- Gas Sampling Natural diffusion
- Detection Range—0-100% of LEL
- Preset Alarm Levels a) Low Alarm Level b) High Alarm Level
- Auto Calibrated
- Response Time T90 less than 30Sec.
- Infra Red sensor is used
- PFC Relay NO or NC PFC O/P and It will be Selectable Latching type or Pulse Type
- Sensor Life : Up to 15 years
- Analog O/P : Selectable 0-5 V & 0-10V output  
4-20mA current output
- Operating Voltage Range is 18 to 32VDC

### Salient Features:

- Long Operating Life.
- No Routine Calibration Required, hence reducing maintenance cost & Time.
- Operated in Inert Atmospheres.
- Fast Response.
- Ability to Operate in the Absence of Oxygen or in enriched oxygen.
- Replaceable Sensor Provision.
- Magnetic Key Operations.
- Wide Operating Temperature Range.
- Immune to Catalytic Poisons.
- Failsafe Operation.
- No moving parts , hence No drift.
- High reliability & repeatability.
- **ATEX Certified.**
- **CCOE (PESO) Certified**
- **BIS—CM/L—3927980 Certified**

### TS21I-IR Detector detects following gases:

Hydrocarbon, LPG, PNG, CNG, Carbon Dioxide, Methane, Propane, Propylene, Butane, Pentane, Hexane, Ethylene, Ethylene Oxide, Ethane, Ethanol, Hydrocarbon+CO<sub>2</sub>



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### Technical Specifications:

<b>Gas Sampling</b>	Infrared absorption	<b>Detection Range</b>	0—100% LEL
<b>Gas Sensor Type</b>	Infrared	<b>Output</b>	Four Digit 7-Segment Display Relay (NO & NC)
<b>Operating Voltage</b>	18VDC to 32VDC	<b>Extra Outputs</b>	RS-485, Valve output. 4-20mA Output 0-5V & 0-10V Output
<b>Power Consumption</b>	2W / 5W Max.	<b>Working Temperature</b>	-20°C to 80°C

### Application:

- OIL & GAS refinery Industries
- Fertilizer and Power plants
- Refineries and Petrochemical Plants
- Chemical storage room
- GAS pipe installation areas
- Chemical & pharma Industry
- Steel & copper industries
- LPG bottling
- LNG stork CNG import terminals