

## Industrial Gas Leak Detector TS21I-CAT-H2



### Certifications



CCOE (PESO)

### Product Description:

TS21I-CAT-H2 gas detector is suitable for Hydrogen gas. Application area of this detector is Refineries, Chemical plant, Gas Cylinder Refilling and Battery Back Power Stations 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 is show LEL level on display. Catalytic type of gas sensor is used in this detector , This sensor is provide good reproducibility, good performance against changes in atmospheric temperature and humidity. It has long lifespan 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. **Catalytic sensor** is used in this model.

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.

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### Product Features & Specifications:

- Gas Detection Method using Catalytic Combustion.
- Detection Range: 0-100% of LEL.
- Preset Alarm Levels : a) Low Alarm Level.  
b) High Alarm Level.
- Auto Calibrated.
- Response Time(< 2Sec.).
- Catalytic sensor is used.
- PFC Relay NO or NC O/P and It will be Selectable Latching type or Pulse Type.
- Flame Proof Enclosure is used.
- Sensor Life : Up to 5 years.
- Analog O/P : Selectable 0-5 V & 0-10V output.  
4-20mA current output.
- **ATEX Certified.**
- **CCOE (PESO) Certified.**
- **BIS—CM/L—3927980 Certified.**

### TS21I-CAT Detector detects following gases:

Hydrocarbon, LPG, PNG, CNG, Hydrogen, Acetylene, Methane, Propane, Butane

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### Technical Specifications :

|                          |                      |                            |   |
|--------------------------|----------------------|----------------------------|---|
| <b>Detection Method</b>  | Catalytic Combustion | <b>Detection Range</b>     | 0—100% LEL  |
| <b>Gas Sensor Type</b>   | Catalytic            | <b>Output</b>              | Four Digit 7-Segment Display<br>Display PFC Relay,<br>(NO & NC) |
| <b>Operating Voltage</b> | 18 -32 VDC           | <b>Extra Outputs</b>       | RS-485, Valve output.<br>4-20mA Output<br>0-5V & 0-10V Output   |
| <b>Power Consumption</b> | 2W / 5W Max.         | <b>Working Temperature</b> | 0°C to 50°C   |

### Applications:



Chemical Industries



Oil & gas Refineries



Gas Pipe Installation Area



Control Rooms



Hotels