



TrueSafe Industrial Gas Leak Detector

Product Description: TS21I-IR

Model TrueSafe TS21I-IR gas detector is suitable for all Hydrocarbon gases as well as Carbon Dioxide gas. Application area of this detector is in OIL, Gas and Petrochemical Complex, Gas petrochemicals Pipelines and Skids, 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 has provision to set Two alarm levels of warnings (High & Low).



Relay output is provided and this output can be connected to the conventional Gas Detection Panel OR SCADA system. For BMS connectivity detector has provided RS485 output. 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.

Application:

- OIL & GAS petrochemical Complex
- Fertilizer and Power plants
- Refineries and Petrochemical Plants
- Chemical & Pharma Industry
- Gas Petrochemicals and Skids
- Steel & Cooper Industries
- LPG bottling & LNG Terminals

Salient Features:

- Calibration required as per OISD / Safety Standards.
- Simulate alarm, fault and warning.
- Replaceable Sensor Provision.
- View gas reading, configuration and diagnostic.
- Wide Operating Temperature Range.
- Immune to Catalytic Poisons.
- Failsafe Operation.

Vighnaharta Technologies Pvt. Ltd

(Formerly known as Realty Automation & Security Systems Pvt. Ltd.)

Bengaluru

Hyderabad

Ahmedabad





Ahmedabad

TrueSafe Industrial Gas Leak Detector

Model: TrueSafe TS21I-EC Specification

Gas Sampling Measuring Range (Methane/HC gases) Measuring Range (Propane gas) Measuring Range (CO2 gas) Signal Output*** Modbus Output*** Relay Output*** Fault Alarms	IR absorption and Natural Diffusion Method (NDIR) 0-5%, 0-100% volume or LEL 0-2% Volume 0-5%, 0-4%, 0-3%, 0-2%, 0-1% Volume or 0-500 ppm upto 0-10000 ppm 4-20mA, HART over 4-20mA <i>(Optional)</i> . The Modbus output to enable connection to a multi-drop Modbus network. Provides NO/NC relay output. 0mA (General Fault), 2mA (Calibration), 20-21mA (Over Range).
Gas Sensor Response Time Accuracy Repeatability Linearity Operation Temperature Humidity Drift over Year Power Supply Environmental Protection Hazardous Classification Zones	IR Type (Replaceable), SIL/Non-SIL sensor T90 < 30 seconds < ± 10 % FSD < ± 2 % FSD < ± 10 % FSD - 20°C to + 50°C 0 to 95% RH (Non-Condensing) < ± 2 % FSD 18 to 32V DC (24V DC) IP66 /67 Ex II 2 G Exd ia IIC T4 Gb Certified for use in Zone 1 & 2, and Zone 21 & 22 hazardous areas
Transmitter Material Enclosure Sensor Material Enclosure Weight Dimensions Display Cable Entry Safety Approvals	Aluminum Alloy LM6, Flameproof Enclosure SS316 Approx 1kg. 150 mm (L) x 145 mm (W) x 150mm (H) (varies with/without display option) LED indication and Seven segment Display M20 x 2 nos. ATEX, CCoE (PESO), BIS-CM/L – 3927980
Sensor Life Transmitter Warranty *** Ordering Information: Please refer De-co	Upto 5 years 1 year Distributor:

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Pune