

TrueSafe Industrial Gas Leak Detector

Product Description: TS21I-CAT

Model TrueSafe TS21I-CAT gas detector is used to detect natural gas, LPG, coal gas, alkane, combustible gas, and gasoline, Alcohol, ketone, benzene etc., organic solvent as well as Hydrogen gas. Application area of this detector is in Automotive, Medical, Refineries and Petrochemical Plants, Oil and Gas, LPG station, Chemical and Pharma Industries, 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. Catalytic 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 refinery Industries
- Automotive and Power plants
- Refineries and Petrochemical Plants
- Medical Laboratories & Chemical storage room
- GAS pipe installation areas
- Chemical & Pharma Industry
- Steel Industries

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.)



TrueSafe Industrial Gas Leak Detector

Model: TrueSafe TS21I-CAT Specification

Operating Principle	Catalytic Combustion(oxidation).
Measuring Range	0-100% LEL
Signal Output***	4-20mA, HART over 4-20mA <i>(Optional)</i> .
Modbus Output***	The Modbus output to enable connection to a multi-drop Modbus network.
Relay Output***	Provides NO/NC relay output.
Fault Alarms	0mA (General Fault), 2mA (Calibration), 20-21mA (Over Range).
Gas Sensor	Catalytic Type (Replaceable) sensor
Response Time	T90 < 10 to 30 seconds
Operation Temperature	- 40°C to + 70°C
Humidity	0 to 95% RH
Drift over Year	± 2 % FSD
Power Supply	18 to 32V DC (24V DC)
Environmental Protection	IP66 /67
Hazardous Classification	Ex II 2 G Exd ia IIC T4 Gb
Zones	Certified for use in Zone 1 & 2, and Zone 21 & 22 hazardous areas
Transmitter Material Enclosure	Aluminum Alloy LM6, Flameproof Enclosure
Sensor Material Enclosure	SS316
Weight	Approx 1kg.
Dimensions	150 mm (L) x 145 mm (W) x 150mm (H) <i>(varies with/without display option)</i>
Display	LED indication and Seven segment Display
Cable Entry	M20 x 2 nos.
Safety Approvals	ATEX, CCoE (PESO), BIS-CM/L – 3927980
Sensor Life	6 to 24 months
Transmitter Warranty	1 year

*** Ordering Information: Please refer De-codification sheet.

Distributor:

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