

# TrueSafe Industrial Gas Leak Detector

## Product Description: TS21I-EC

Model TrueSafe TS21I-EC gas detector is suitable to detect Ammonia, Carbon Monoxide, Chlorine, Chlorine Dioxide, Ethylene Oxide, Hydrogen, Hydrogen Chloride, Hydrogen Sulphide, Nitric Oxide, Nitrogen Dioxide, Sulphur Dioxide, Volatile Organics as well as Oxygen gases. Application area of this detector is in 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. Electrochemical 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
- Fertilizer and Power plants
- Automotive and Petrochemical Plants
- Chemical & Pharma Industry
- Steel & copper 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.)





CCOE (PESO)



Vignaharta™

# TrueSafe Industrial Gas Leak Detector

## Model: TrueSafe TS21I-EC Specification

<b>Gas Sampling</b>	Oxidizing or reducing at Electrode
<b>Measuring Range (in ppm)</b>	0-25, 50, 100, 200, 500, 1000 ppm
<b>Measuring Range (in volume)</b>	20.9 – 0 % volume for O2
<b>Signal Output***</b>	4-20mA, HART over 4-20mA <b>(Optional)</b> .
<b>Modbus Output***</b>	The Modbus output to enable connection to a multi-drop Modbus network.
<b>Relay Output***</b>	Provides NO/NC relay output.
<b>Fault Alarms</b>	0mA (General Fault), 2mA (Calibration), 20-21mA (Over Range).
<b>Gas Sensor</b>	Electrochemical Type (Replaceable)
<b>Response Time</b>	T90 < 15 to 30 seconds
<b>Repeatability</b>	< ± 2 % FSD
<b>Linearity</b>	< ± 2 % FSD
<b>Operation Temperature</b>	- 20°C to + 55°C
<b>Humidity</b>	0 to 95% RH (Non-Condensing)
<b>Drift over Year</b>	< ± 2 % FSD
<b>Power Supply</b>	18 to 32V DC (24V DC)
<b>Environmental Protection</b>	IP66 /67
<b>Hazardous Classification</b>	Ex II 2 G Exd ia IIC T4 Gb
<b>Zones</b>	Certified for use in Zone 1 & 2, and Zone 21 & 22 hazardous areas
<b>Transmitter Material Enclosure</b>	Aluminum Alloy LM6, Flameproof Enclosure
<b>Sensor Material Enclosure</b>	SS316
<b>Weight</b>	Approx 1kg.
<b>Dimensions</b>	150 mm (L) x 145 mm (W) x 150mm (H) <b>(varies with/without display option)</b>
<b>Display</b>	LED indication and Seven segment Display
<b>Cable Entry</b>	M20 x 2 nos.
<b>Safety Approvals</b>	ATEX, CCoE (PESO), BIS-CM/L – 3927980
<b>Sensor Life</b>	Upto 2 years
<b>Transmitter Warranty</b>	1 year

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

**Distributor:**

**Vignaharta Technologies Pvt. Ltd**

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



Vignaharta™

**Pune**

**Mumbai**

**Delhi**

**Bengaluru**

**Nagpur**

**Hyderabad**

**Ahmedabad**

Automation | Safety | Security | Surveillance

Factory Address: 2nd Floor, Karanjkar Estate, Surve.No.11/11, Nanded Gaon, Pune – 411 041

[www.vignaharta.in](http://www.vignaharta.in)