

TS12CLR-EX/TS24CLR-EX



Vignaharta

Commercial LPG/PNG/CNG Gas Leak detector without LEL Display

Product Description

- TrueSafe TS12CLR-EX is LPG/PNG/CNG gas leak detector for commercial and small scale Industrial segment.
- It reads gas concentration in air, if concentration reaches to hazardous level. It generates alert & send signal to the gas detection Panel or BMS.
- This wall mounted unit is designed for permanent installation with replaceable sensor.
- TS12CLR-EX Raises alarm when gas leakage is at 10% LEL.
- TS12CLR-EX is Commercial LPG/PNG/CNG gas leak detector without LEL display.



Application

- LPG/PNG/CNG Gas storage stations
- LPG Bullets and banks
- Plant Locations
- Hotel Kitchens, Industrial Canteens
- Gas filling stations

Product Features:

- Aluminium Flame proof enclosure.
- Raises alarm when gas leakage is at 10% LEL.
- Pulse output for external gas valve.
- Microprocessor based design for accurate & quick detection
- PFC relay output is used to connect or interface conventional Gas detection panel or SCADA system/BMS
- Alarm status latching provision.

USPs:

- Make in India Product.
- Cast Aluminium alloy Flame proof enclosure.
- CE Certifications, IP 66 for Gas Gr. IIA & IIB, CCOE Approved.



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Commercial LPG/PNG/CNG Gas Leak detector without LEL Display Technical Specifications

General Specifications	
Detection Method	Natural diffusion
Gases Detected	LPG/PNG/CNG
Sensor type	Semiconductor
Sensor Life span	2-3 years
Display	Analog
Accuracy	
Response time	Less than 2Sec
Warm-up Period	When TrueSafe is power ON, it enters in the warm-up period for approximately one minutes. Power LED (Yellow) & Gas LED (RED) flashes simultaneously during the warm-up period.
Electrical Specifications	
Power Supply	+10 to +32V DC
Power Consumption	0.6W (at+10V) to 2W (at +32V)
Cable	4 core 1.5mm ² Twisted FRLS cable
Detection distance	Under radius of 3-4M
Environmental Specifications	
Operating Temperature	-10 to +55 Deg C
Storage Temperature	-10 to +60 Deg C
Humidity	0 to 90%Rh
Mechanical specifications	
Protection class	IP 66 for Gas Gr. IIA & IIB, CCOE Approved
Cabinet Material	Cast Aluminium alloy
Cable Entry	Double compression cable gland (Ex-Proof), 3/4" ET-Type
Dimensions	119(L)mm *106(W)mm *119(H)mm
Mounting	Wall Mounting/ Stand Mounting
Weight	Approx. 1.5 Kg.
LED Indications and Output Signal	
LED Indication	<ul style="list-style-type: none">Gas Leak: Red LEDPower: Yellow LED <p>Relay operates in alarm state & restores when unit is reset. This relay output can be used to trigger any external device such as siren, dialer, valve or sensor input for security system.</p>
Output	PFC Relay Contact NO/NC, LED Indication & Valve Output, RS-485(Optional)
Accessories with Unit	



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- TS12CLR-Ex Unit
- Allen Key
- User Manual

Certifications

CE Certifications, IP 66 for Gas Gr. IIA & IIB, CCOE Approved

Warranty

12 Months against Manufacturing defects only.

Models and Variants

TS12CLR-EX, TS12CLR-EX-LEL

Abbreviations

TS12CLR-EX

TS-TrueSafe, 12-Operated on 12V DC, C- Commercial, L-LPG Gas, R- PFC Relay NO/NC with Ex-proof housing without LEL display

Installation

LPG Detection

- LPG is heavier than air. It has tendency to settle down.
- Hence, when user is using gas cylinder or bank, TrueSafe must be installed at 30Cm height from the floor.

PNG/CNG/LNG Detection

- Natural gas (PNG/CNG/LNG) is lighter than air. It has tendency to settle up on ceiling.
- Hence, when user is using it, TrueSafe must be installed 30Cm below ceiling.

Datasheet Version with Date(dd/mm/yy)

