

TS12CLR/TS24CLR



Vignaharta

Commercial LPG/PNG/CNG Gas Leak detector

Product Description

- TrueSafe Commercial Gas Leak detector is suitable for Hotels, Restaurants, Pantries Etc.
- Safety of Commercial & Industrial kitchens is of Prime importance.
- It detects LPG gas leakage & warns before the gas density in air reaches to unwanted levels.
- This model also provides Bar-Graph indication which indicates level of gas leakage.
- Four Levels of LEL are provided: 2.5%, 5.0%, 7.5% & 10.0%



Application

- Commercial Kitchens
- Pantry, Cafes
- Bakery

Product Features:

- Dustproof & Water Splashproof-IP65 Enclosure
- Replaceable Filter.
- Only Commercial detector available with LEL Bar Graph.
- Pulse output for external gas valve.
- Microprocessor based design for accurate & quick detection
- PFC for remote signalling & Control
- Long life, simple installation & maintenance.

USPs:

- Make in India Product.
- Dustproof & Water Splashproof-IP65 Enclosure.
- CE Certifications.



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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. Fault LED flashes rapidly 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 95%Rh
Mechanical specifications	
Protection class	IP 65
Cabinet Material	Polycarbonate
Cable Entry	Thermoplastic Cable gland
Dimensions	121(H)mm *81(W)mm *60(D) mm
Mounting	Wall Mounting/ Stand Mounting
Weight	Approx. 250 Grams
LED Indications and Output Signal	
LED Indication (Bar graph indication for gas levels)	<ul style="list-style-type: none">• 10% LEL: Red LED• 7.5% LEL: Orange LED• 5% LEL: Yellow LED• 2.5% LEL: Yellow LED • Fault: Orange LED• Gas Leak: Red LED• Sensor ON/Power: Green LED • TEST Switch: For testing purpose, system simulates gas leak condition with 10%LEL. Press the button and check the output at relay or valve if connected . So user can check TrueSafe's condition without actual gas leak condition.
Output	PFC Relay Contact NO/NC, Bar Graph LED & Valve Output, RS-485(Optional)



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Accessories with Unit

- TS12CLR Unit
- 5 Replaceable filters for sensors
- Mounting screws
- User Manual

Certifications

CE Certifications, IP65 Grade Enclosure

Warranty

12 Months against Manufacturing defects only.

Models and Variants

TS12CLR, TS12CLR-EX, TS12CLR-EX-LEL

Abbreviations

TS12CLR

TS-TrueSafe, 12-Operated on 12V DC, C- Commercial, L-LPG Gas, R- PFC Relay NO/NC

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)



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