

# TS12CLR-EX/TS24CLR-EX



## Commercial LPG/PNG/CNG Gas Leak Detector without LEL Display

(Family- Gas)

### 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 then it generates alert & sends 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

### USPs:

- Make in India product.
- Cast aluminium alloy flame proof enclosure.
- CE certifications, IP 66 for gas Group IIA & IIB, CCOE approved.

### 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.



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### Technical Specifications:

<b>General specifications</b>	
Detection method	Natural diffusion
Gases detected	LPG/PNG/CNG
Sensor type	Semiconductor
Sensor life span	2-3 years
Display	Analog
Response time	Less than 2 Second
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.
<b>Electrical specifications</b>	
Power supply	+10 to +32 V DC
Power consumption	0.6 W (at+10 V) to 2 W (at +32 V)
Cable	4 core 1.5 mm 2 Twisted FRLS cable
Detection distance	Under radius of 3-4M
<b>Environmental specifications</b>	
Operating temperature	-10 <sup>0</sup> to +55 <sup>0</sup> C
Storage temperature	-10 <sup>0</sup> to +60 <sup>0</sup> C
Humidity	0 to 90% Rh
<b>Mechanical specifications</b>	
Protection class	IP 66 for gas group IIA & IIB, CCOE approved
Cabinet material	Cast aluminium alloy
Cable entry	Double compression cable gland (Ex-proof), 3/4" ET-Type
Dimensions	119 x 106 x 119 mm (L x W x H)
Mounting	Wall mounting/ stand mounting
Weight	Approx. 1.5 Kg.
<b>LED indications and output signal</b>	
LED indication	<ul style="list-style-type: none"><li>Gas Leak: Red LED</li><li>Power: Yellow LED</li></ul> <p>Relay operates in alarm state &amp; 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)
<b>Accessories with unit</b>	



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(Family- Gas)

- TS12CLR-Ex unit
- Allen key
- User manual

### Certifications

1. CE certifications,
2. IP 66 for gas group IIA & IIB,
3. 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 30 Cm height from the floor.

#### PNG/CNG/LNG detection

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

Datasheet version with date (V.2 Oct.2020)



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