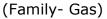
## TS12CLR-EX/TS24CLR-EX

## 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.
- reads gas concentration in air. If It • 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 installation with replaceable permanent 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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## TS12CLR-EX/TS24CLR-EX

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



(Family- Gas)

### **Technical Specifications:**

General specifications				
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.			
Electrical specifications				
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			
Environmental specifications				
Operating temperature	-10° to +55° C			
Storage temperature	-10 <sup>°</sup> to +60 <sup>°</sup> C			
Humidity	0 to 90% Rh			
	Mechanical specifications			
Protection class	IP 66 for gas group IIA & IIB, CCOE approved			
Cabinet material	Cast aluminium alloy			
Cable entry	Double compression cable gland (Ex-proof), 34" ET-Type			
Dimensions	119 x 106 x 119 mm (L x W x H)			
Mounting	Wall mounting/ stand mounting			
Weight	Approx. 1.5 Kg.			
LED indications and output signal				
LED indication	<ul> <li>Gas Leak: Red LED</li> <li>Power: Yellow LED</li> </ul>			
	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.			
Output	PFC relay contact NO/NC, LED indication & valve output, RS-485 (optional)			
Accessories with unit				

**Uighnaharta**<sup>™</sup>

## TS12CLR-EX/TS24CLR-EX

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

(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	12 Months against manufacturing defects only.		

Models and variants			
• TS12CLR-EX,			
	TS12CLR-EX-LEL		
Abbreviations			
TS12CLR-EX	TS-TrueSafe,		
	<ul> <li>12-Operated on 12V DC,</li> </ul>		
	C- Commercial,		
	• L-LPG gas,		
	R- PFC Relay NO/NC with Ex-proof housing without LEL display		

Installation				
LPG detection	PNG/CNG/LNG detection			
<ul> <li>LPG is heavier than air. It has tendency to settle down.</li> <li>Hence, when user is using gas cylinder or bank, TrueSafe must be installed at 30 Cm height from the floor.</li> </ul>	<ul> <li>Natural gas (PNG/CNG/LNG) is lighter than air. It has tendency to settle on ceiling.</li> <li>Hence, when user is using it, TrueSafe must be installed 30 Cm below ceiling.</li> </ul>			

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



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