

TS12CLR/TS24CLR



Commercial LPG/PNG/CNG Gas Leak Detector

(Family-gas)

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

USPs:

- Make in India product
- Dustproof & water splashproof-IP65 enclosure
- CE certifications

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



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(formally known as Realty Automation and Security Systems Pvt. Ltd)
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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 2 Second
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 +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 3-4 M
Environmental specifications	
Operating temperature	-10 ⁰ to +55 ⁰ C
Storage temperature	-10 ⁰ to +60 ⁰ C
Humidity	0 to 95% Rh
Mechanical specifications	
Protection class	IP 65
Cabinet material	Polycarbonate
Cable entry	Thermoplastic cable gland
Dimensions	121 x 81 x 60 mm (H x W x D)
Mounting	Wall mounting/ Stand mounting
Weight	Approx. 250 g.
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.



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Output	PFC relay contact NO/NC, bar graph LED & valve output, RS-485 (Optional)
Accessories with unit	
<ul style="list-style-type: none">• TS12CLR unit• 5 Replaceable filters for sensors• Mounting screws• User manual	
Certifications	
<ul style="list-style-type: none">• CE certifications• IP65 grade enclosure	
Warranty	
12 Months against manufacturing defects only.	
Models and variants	
<ul style="list-style-type: none">• 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	PNG/CNG/LNG detection
<ul style="list-style-type: none">• 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.	<ul style="list-style-type: none">• 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 (V.2 Oct2020)



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