

TS12(REF)-R/ TS12(REF)-R-RS485



Commercial Refrigerant Gas Leak Detector

(Family-Gas)

Product Description:

- TrueSafe TS12C-(REF)R is commercial gas leak detector which is suitable for refrigerant gas leak detection.
- Safety of commercial & industrial refrigeration systems is of prime importance.
- It detects refrigerant gas leakage & warns before the gas density reaches to unwanted levels.
- This model also provides bar graph indication to understand about level of concentration of gas.
- Four levels of PPM are provided: 125, 250, 375 & 500.



Application:

- Food storage & processing facilities,
- Supermarkets, parking garages, wastewater treatment facilities,
- Hospitals and universities.

USPs:

- Make in India product.
- Dustproof & water splashproof-IP65 enclosure.

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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Commercial Refrigerant Gas Leak Detector

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Technical Specifications:

General specifications	
Detection method	Natural diffusion
Gases detected	Refrigerants HFC : R134a, R404a, R407c, R410a HCFC : R22, R401a, R406a, R408a, R409a.
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 two 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



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LED indications and output signal

LED indication (Bar graph indication for gas levels)	<ul style="list-style-type: none">• 1000 PPM: Red LED• 750 PPM: Orange LED• 500 PPM: Yellow LED• 250 PPM: Yellow LED • Fault: Orange LED• Gas Leak: Red LED• Power: Green LED • TEST switch: For testing purpose, system simulates gas leak condition with 1000 PPM. Press the test button and check the output at relay or valve if connected. So, you can check TrueSafe's alarm condition without actual gas leak condition.
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Output	PFC relay contact NO/NC, bar graph LED & valve output, RS-485 (Optional)
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Accessories with unit

	<ul style="list-style-type: none">• TS12REF R- (RS485) unit• 5 replaceable filters for sensor• 2 stopping plugs• Mounting brackets• Mounting screws• User manual
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Certifications

	IP65 grade enclosure
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Warranty

	12 Months against manufacturing defects only.
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Models and Variants

	<ul style="list-style-type: none">• TS12(REF)-R• TS12(REF)-R-RS485
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Abbreviations

TS12(REF)-R	TS-TrueSafe, 12-Operated on 12V DC, REF- Refrigerant Gas, R- PFC Relay NO/NC
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Installation



Cold storage Area



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



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