TS12CHR/TS12CHR-485

Commercial Hydrogen(H2) Gas Leak Detector:
(Family-Gas)

Product Description:

- TrueSafe TS12CHR is commercial gas leak detector; which is suitable for hydrogen gas leakage detection.
- Safety of commercial & industrial battery back power stations is of prime importance.
- It detects hydrogen 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: 5%, 10%, 15% & 20%.

Application

- Commercial battery back-up power stations
- UPS rooms

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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Technical Specifications:

General specifications	
Detection method	Natural diffusion
Gases detected	Hydrogen (H2)
Sensor type	Semiconductor
Sensor life span	2-3 years
Display	Analog
Response time	Less than 2 Sec
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	12-30 V DC
Power consumption	0.5 W Max
Cable	3 core 1.5 mm 2 flexible 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)	20% LEL: Red LED 15% LEL: Orange LED 10% LEL: Yellow LED 5% LEL: Yellow LED - Fault: Orange LED - Gas Leak: Red LED - Sensor ON: Green LED - TEST Switch: For testing purpose, system simulates gas leak condition with 20%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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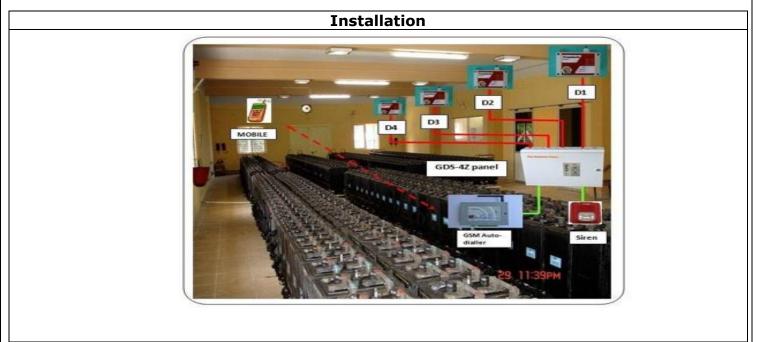**Automation | Safety | Security | Surveillance**

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Output	PFC relay contact NO/NC, bar graph LED & valve output, RS-485 (Optional)

Accessories with Unit	
	• TS12CHR unit • 5 Replaceable filters for sensors • Mounting screws • User manual

Certifications
IP65 grade enclosure

Warranty
12 Months against manufacturing defects only.

Models and variants	
	TS12CLR, TS12CC1R
Abbreviations	
TS12CHR	TS-TrueSafe, 12-Operated on 12V DC, C- Commercial, H-Hydrogen gas, R- PFC Relay NO/NC

Installation

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

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