

TS12CHR/TS12CHR-485



Vignaharta

Commercial Hydrogen(H₂) Gas Leak Detector

Product Description

- TrueSafe TS12CHR is Commercial Gas Leak detector 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

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.

USPs:

- Make In India Product.
- Dustproof & Water Splashproof-IP65 Enclosure.



TS12CHR/TS12CHR-485



Vignaharta

Commercial Hydrogen(H2) Gas Leak Detector

Technical Specifications

General Specifications	
Detection Method	Natural diffusion
Gases Detected	Hydrogen(H2)
Sensor type	Semiconductor
Sensor Life span	2-3 years
Display	Analog
Accuracy	
Response time	Less than 2Sec
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	12-30V DC
Power Consumption	0.5W Max
Cable	3 core 1.5mm ² Flexible cable
Detection distance	Under radius of 3-4M
Environmental Specifications	
Operating Temperature	-10 to +55 Deg C
Storage Temperature	-10 to +60 Deg C
Humidity	0 to 95%Rh
Mechanical specifications	
Protection class	IP 65
Cabinet Material	Polycarbonate
Cable Entry	Thermoplastic Cable gland
Dimensions	121(H)mm *81(W)mm *60(D) mm
Mounting	Wall Mounting/ Stand Mounting
Weight	Approx. 250 Grams
LED Indications and Output Signal	
LED Indication (Bar graph indication for gas levels)	<ul style="list-style-type: none">• 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.



TS12CHR/TS12CHR-485



Vignaharta

Commercial Hydrogen(H₂) Gas Leak Detector

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(dd/mm/yy)



Vignaharta Technologies Pvt. Ltd.
Automation | Safety | Security | Surveillance
www.vignaharta.in