

CO-REF[®]

COMPONENTI PER LA REFRIGERAZIONE

STG

OPENING/LEAKING
SAFETY VALVE DETECTION SENSOR



CO-REF[®]

Pessano con Bornago (Italy)



II 3G Ex ic mc IIA T4 Gc
TÜV IT 21 ATEX 015 X

WARNING:

- Potential electrostatic
charging hazard - see
instructions.
- Do not separate when
energized.



PWR

STG-F

S.N: F0000/22
IP 65
TA: -20/+50°C
24 V DC 100 mA
(Um = 30Vrms / 42Vdc)

MADE IN ITALY

Distributed by

HB Products

HB

Products

How it works:

The STG sensor has the function of detecting any leakage or opening of the safety valves in industrial refrigeration systems, operating with any type of refrigerant gas.

When the alert or alarm value of the presence of refrigerant gas is exceeded (threshold values set by the user), the device will signal the alarm to the control and activate a visual signal locally. Furthermore, using the MODBUS protocol, it is possible to view values such as % Gas Presence, % Alert Gas Presence, % Alarm Gas Presence and set the related thresholds.

The STG sensor is available in 2 different versions:

STG – B: Equipped with a relay with two contacts (C- NO), a Modbus RS-485 protocol and powered by 24 V DC.

STG – F: Equipped with a relay with two contacts (C- NO), a Modbus RS-485 protocol, two analogue outputs 0-10V / 4-20 mA and powered by 24 V DC.

In addition, both versions will be equipped with a local visual alarm signal that also allows the display of the status in real time.

Thanks to its 1" threaded connection, the STG sensor can be easily installed on an outlet pipeline of one or more safety valves in the system. It can be used in stand-alone applications or connected through the analogue, digital outputs or through the RS485 Modbus serial link to a control system (electronic controllers, PLC or third-party devices), capable of performing any alarm procedures.

List of advantages:

- It signals the leakage of refrigerant gas, avoiding dispersion in large quantities
- Suitable for any type of refrigerant
- Compatible with any brand and model of safety valve
- Retrofit on any type of system
- Interfaceable with the most common plant control systems
- Visual alarm signaling
- Easy installation
- Long operating cycle
- Reusable even after its intervention
- It reduces intervention and maintenance costs in case one or more safety valves open.
- Increases safety for people operating nearby
- It does not generate pressure drops





Technical features:

- Certification: ATEX II 3G Ex ic mc IIA T4 Gc
- Degree of protection: IP65
- Ambient / operating temperature: -20 ° C / + 50 ° C
- Outputs: Relay C-NO (30V – 1A);
Modbus RS-485; 4-20 mA (STG-F only);
0-10V (STG-F only)
- Process connection: Swivel 1" G-F
- Power supply: 24 V DC ± 25% (100 mA)

Accessories:

- A WiFi controller to manage and monitor up to a maximum of 5 probes.

Technical features:

- Management of up to a maximum of 5 STG probes at the same time
- Modbus RS-485 RTU protocol
- Ambient / operating temperature:
• 20 ° C / + 85 ° C
- Ethernet: 2 x 10Mb / 100Mb Ethernet ports
- WLAN: WiFi 802.1x b / g / n
- Support: DIN rail
- Power supply: 500mA at 24 V AC / DC



- Adapter with 1" Gas male threaded connection to be welded



For technical and commercial information:



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