DGS ERIS-230-FR
Fixed freon gas detector

DGS ERIS-230-FR is the reliable explosion-proof gas detector developed for halocarbon (freon) gas leak detection. Special multi-climate zone design allows for high accuracy and response time. Frostproof OLED display expands operations experience of maintenance and settings on site, reducing the overall cost of gas monitoring. DGS ERIS-230-FR takes freon gases leaks under control.

Applications

Freon gas detection design
Multi-climate application
Expanded temperature range

Reliability and durability

100% of devices tested
Long-life sensors
Poison resistant sensor
Long-term stability

Performance and accuracy

Special sensor shield design
High-speed response
Light and sound alarm

Cost-effective

3 years - warranty
Typical lifetime 15 years
Free management software

Frostproof OLED display

Current concentration and units
Log trends and settings

Hart connector
Direct connection
to the field communicator HART

Output signal
4-20 mA+HART
RS-485, Relays
Radio channel - LoRa, E-WIRE

Communication module
Setup with magnetic key
or via mobile app

Frostproof OLED display
Current concentration,
measurement units,
log trends, settings,
self-diagnostics results

Sensor shield
Splash and weather
protection included
in the basic package

Related controllers

SGM ERIS-110

The multichannel gas detection controller accepts inputs currents 4-20 mA, mV bridges and RS-485 ModBus. Management and Log modules simplify setup and management features. Controller support detectors map survey feature. Channels are independent and support three relay outputs and 4-20mA current, RS-485 ModBus interface outputs each. Devices produced in 19" rackmount and DIN-rail mounted housings.

SGM ERIS-130

The multichannel gas detection controller accepts inputs up to 8 4-20 mA sensors transmitters and up to 32 sensors transmitters at RS-485 ModBus. Control system support programming, log and detectors map survey features. Outputs allow setting up to the 4 relays, RS-232, RS-485 and Ethernet interfaces. Small DIN-rail mounted housing is suitable for construction compact size control systems.

ERIS IMPERIUM

The intelligent controller accepts inputs from many sensors types and signals ranges. It designed for industrial automation purposes, fire exhausting and fire detection systems control. Modular configuration of controller benefits flexible setting and optimization for industrial automation applications. Devices produced in 19" rackmount and DIN-rail mounted housings.

Specification

General

Use	3 wire, 4-20mA, RS485 MODBUS, HART output fixed detector with in-built relays for the protection from freon gas hazards. Incorporates a detector with frostproof OLED, status LEDs and fully configurable via magnetic key, RS485, HART, mobile app using Bluetooth.
Gases	FR - Halocarbon (freon)
Measuring range	Customized adjustment, see sensor data sheet
Sensors	Infrared (FR)

Electrical

Input voltage range	13 to 36V DC (24V nominal)
Power consumption	2,8 W in measurement mode
Current output relays	2 alarm, 1 fault. 3 x 2A@220V AC SPDT
Communication	4-20 mA, RS-485 MODBUS RTU, HART 7, LoRaWAN, E-Wire; Bluetooth for settings
Settings	Non-intrusive magnetic key (OLED), RS-485 (free software), Mobile APP (Bluetooth), HART

Construction

Material	Epoxy coating aluminum alloy, SS316L Stainless steel
Dimensions	150 x 120 x 235mm
Weight	2,5kg (aluminum alloy), 4.5kg (316 stainless steel)
Mounting	2 x mounting holes suitable for M6 or M7 bolts.
Cable entries	2 x M20 (M25) cable entries. Seal to maintain IP rating.
Indication	OLED display, status LEDs
IP Rating	IP67 in accordance with EN60529:1992
Temperature range	-60^0C to $+65^0$C (-76^0F to 149^0F)

Certification

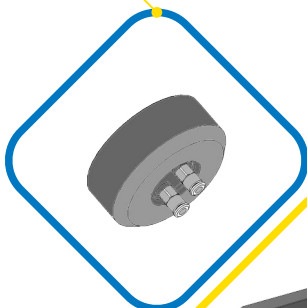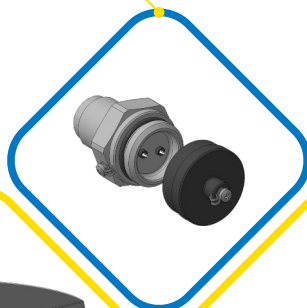|	
European	ATEX II 2 G Ex db [ia] IIC T6 Gb (Ta -45^0C to $+65^0$C)
EMC	ATEX (Directive 2014/34/EU) Electromagnetic Compatibility (Directive 2014/30/EU)

Housing options

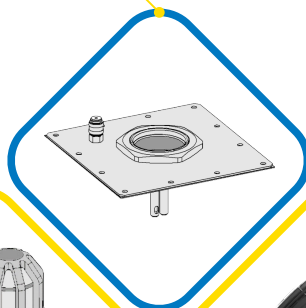Aluminium
with epoxy coating

SS316L
Stainless steel

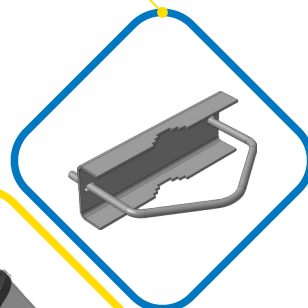# Options & accessories

Calibration head
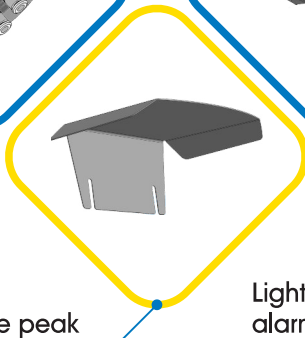
Connector for HART Communicator
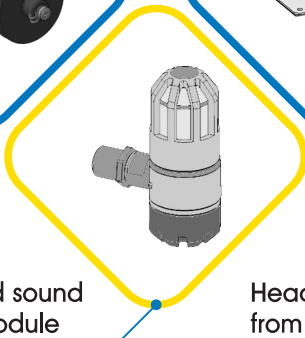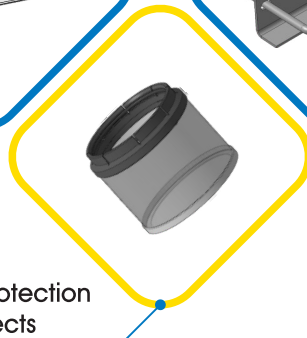
Air duct mounting kit

Pipe mounting kit

Protective peak

Light and sound alarm module

Head protection from insects

Selected instrumentation technologies

DGS
ERIS-210S

DGS
ERIS-210

DGS
ERIS-PID

ERIS
Advant 2

ERIS
Advant 4

ERIS
IP-330

Combining the best measurement technologies