


## 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.


# Features and Benefits


 **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.

## 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°C to +65°C (-76°F to 149°F)

## Certification

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

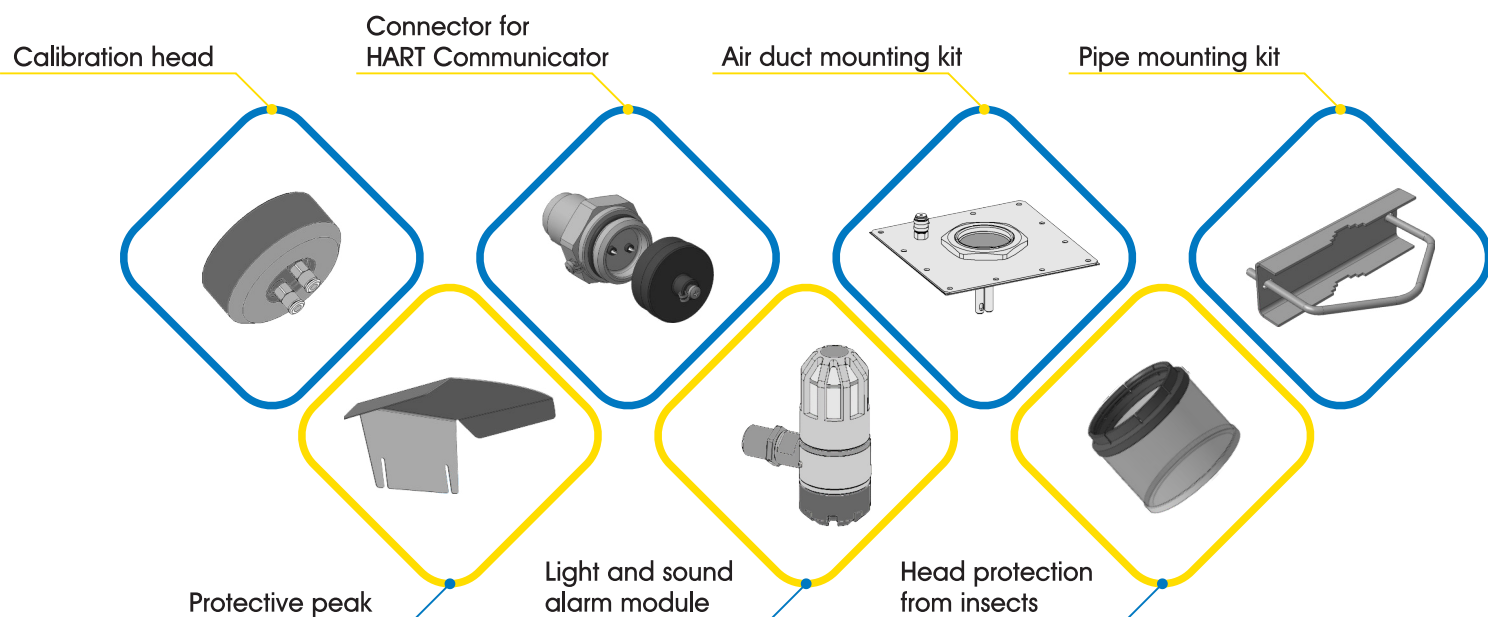
## Housing options

Aluminium  
with epoxy coating



SS316L  
Stainless steel





## Selected instrumentation technologies



DGS  
ERIS-210S

DGS  
ERIS-210

DGS  
ERIS-PID

ERIS  
Advant 2

ERIS  
Advant 4

ERIS  
IP-330

## "ERIS" LLC

Russia, Perm region, Chaikovsky, st. Promyshlennaya, 8/25  
Tel. +7 342 4165511  
info@eriskip.ru

Technical support:  
Tel. +7 800 5500715  
service@eriskip.ru

Find out more: [www.eriskip.com](http://www.eriskip.com)

