

DGS ERIS-230

Fixed gas
detector



DGS ERIS 230 is the reliable explosion-proof gas detector for flammable, toxic gases and oxygen monitoring hazardous areas – indoor and outdoor. Frostproof OLED display expands operations experience of maintenance and settings on site. ERIS gas detectors fulfil the customer requirements of no false alarms, longer service intervals and drift-free signal outputs. Intelligent SMART SENSOR technology ensures the reducing the overall cost of gas monitoring by an easy exchange of a variety of sensors types.

Features and Benefits



Applications

- Wide range of detectable gases
- 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



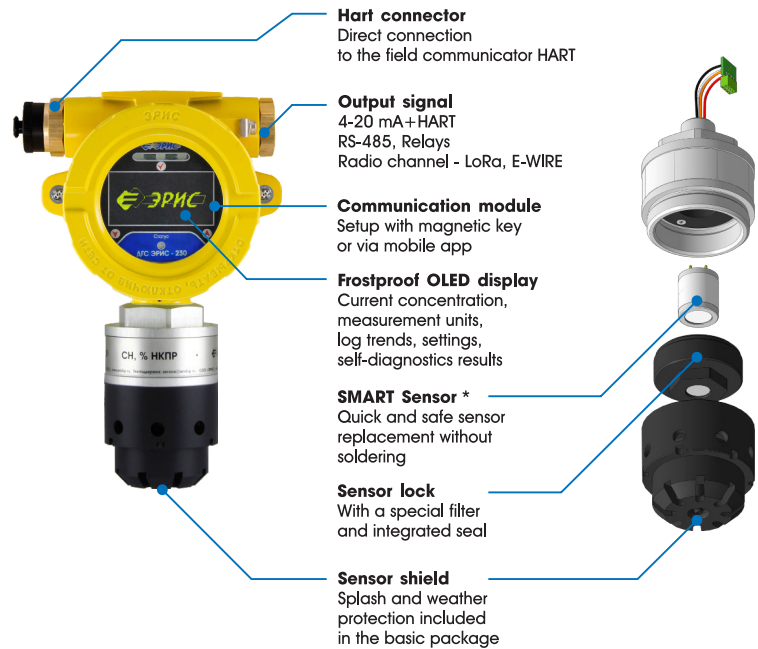
Cost-effective

- 3 years - warranty
- Typical lifetime 15 years
- Free management software



Frostproof OLED display

- Current concentration and units
- Log trends and settings



* SMART SENSOR Technology

- Unified sensors interface
- Easy sensor exchange
- Greater variety of sensors
- Flexible applications
- Reduced cost of maintenance

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 flammable, toxic and oxygen hazards. Incorporates a detector with frostproof OLED, status LEDs and fully configurable via magnetic key, RS485, HART, mobile app using Bluetooth. SMART SENSOR technology easy put to use a variety of sensors types.
Gases	IR, CAT - Flammable gases EC - Toxic gases or oxygen
Measuring range	Customized adjustment, see sensor data sheet
Sensors	Infrared (IR), Thermo-catalytic (CAT), Electrochemical (EC)

Electrical

Input voltage range	12 to 36V DC (24V nominal)
Power consumption	Maximum power consumption depends on the of the gas sensor being used. Electrochemical cells = 3.7W, IR = 3.7W and catalytic = 4.9W. Maximum inrush power = 6.3W
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	Housing: Epoxy coating aluminum alloy, SS316L Stainless steel Sensor: 316 Stainless steel
Dimensions	150 x 110 x 235mm
Weight	1.6kg (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)

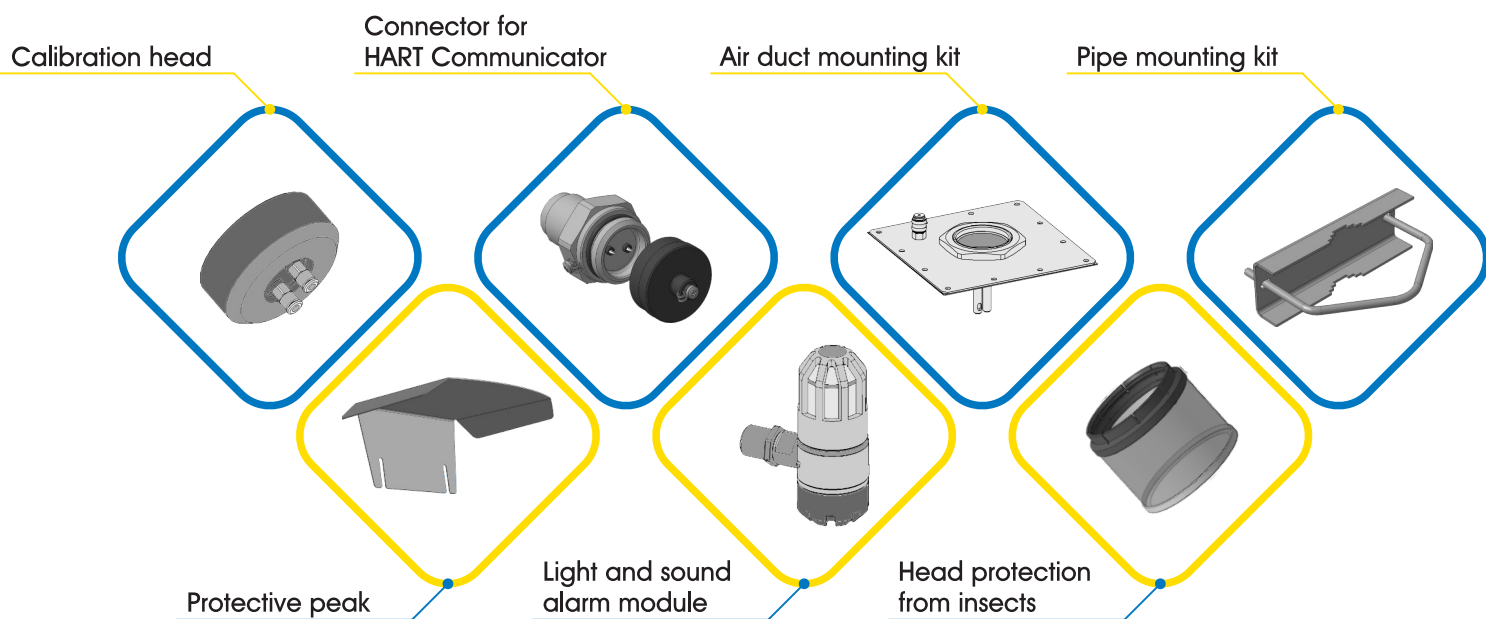
Housing options

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

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