ERIS

Selected Instrumental Technologies

COMBINING THE BEST MEASUREMENT TECHNOLOGY

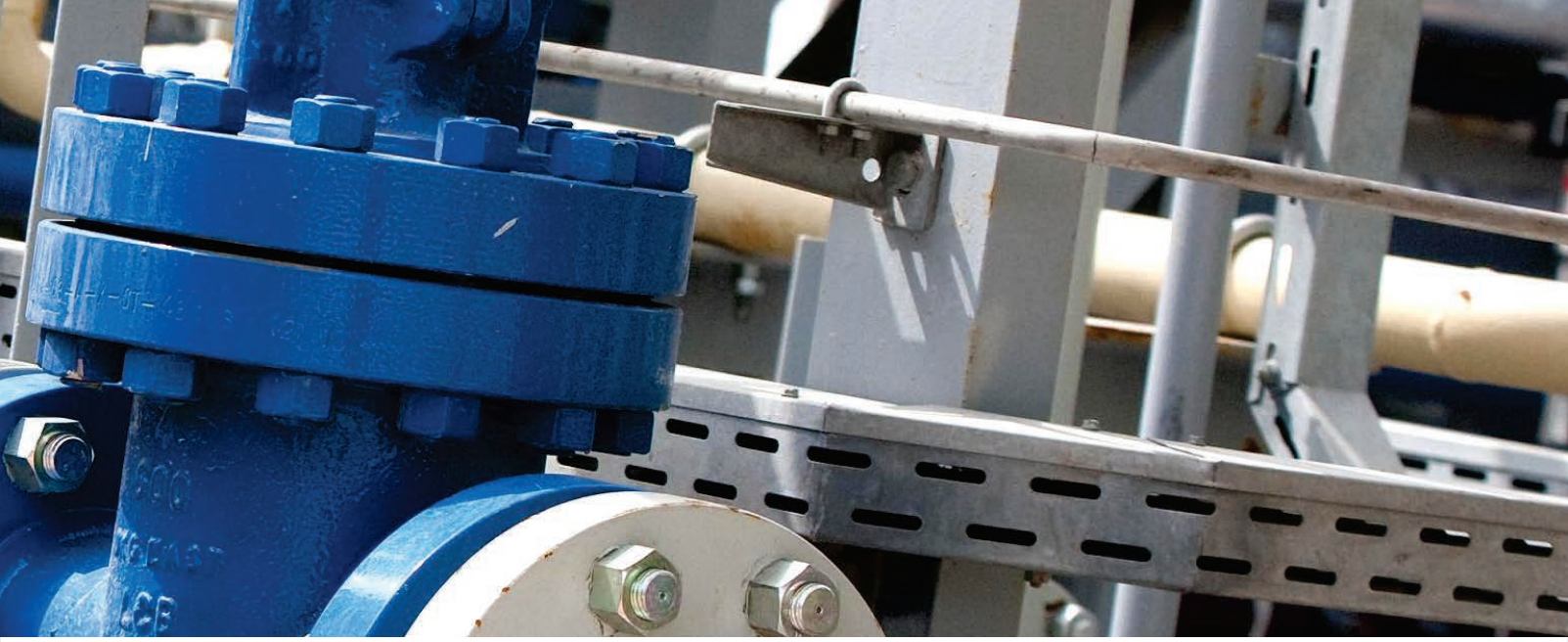
www.eriskip.com

Content

Company profile

OVER 20 YEARS EXPERIENCE IN INDUSTRY

Eris has over 20 years of experience designing, manufacturing, supplying and service fire and gas detection instrumentation and control systems for a wide range of industries and applications used high-performance measurement technology, outstanding accuracy of measurement, quality and maximum safety. The company strives to help own customers gain an advantage by adding value through the comprehensive approach.



Fixed gas detectors

DGS ERIS-210S is a basic model of fixed gas detectors of DGS ERIS 200 line designed to measure concentrations of hydrocarbons, toxic gases or oxygen in the air of the working area.

DGS ERIS-210S
Fixed gas detectors

Features and benefits

Wide range of application

- High operation flexibility
- No overpayments for non-required options
- Extra robust and durable

Accuracy of measurement

- High acuracy (methane error +/- 3% LFL)
- Fast response (T0.9 for IR sensor -5 seconds)

High reliability

- 100% of devices tested
- Compliance with GOST
- Application in all Russian climatic zones
- Corrosion resistance, poison protection

Efficiency of investments

- Field calibration (calibration in-fiel)
- Efficient power consumption
- Free setting software
- Easy maintenance
- RS-485 loopback connection
- Typical lifetime - 15 years

Basic technical specifications

Modifications	DGS ERIS-210S-IR (Infrared sensor)
	DGS ERIS-210S-CAT (Termocatalytic sensor)
	DGS ERIS-210S-EC (Electrochemical sensor)
Type of output signal	4-20 mA, RS-485
Relays	None
Supply voltage	18-36 V DC (24V nominal)
Temperature range	-60 °C...+65 °C
Enclosure	IP67, 1Exd[ia]IICT6X
Weight	1,1 kg (aluminum alloy)

Fixed gas detectors

DGS ERIS-210
Fixed gas detector

DGS ERIS 210 is the reliable explosion-proof gas detector for flammable, toxic gases and oxygen monitoring hazardous areas - indoor and outdoor. 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

Basic technical specifications

Modifications	DGS ERIS-210-IR (Infrared sensor) DGS ERIS-210-CAT (Termocatalytic sensor) DGS ERIS-210-EC (Electrochemical sensor)
Indication	Status LEDs
Communication	4-20 mA, RS-485 MODBUS RTU, HART 7, LoRaWAN*, E-Wire*; Bluetooth* for settings
Current output relays	2 alarm, 1 fault. 3 x 2A@220VAC SPDT
Input voltage range	12 to 36V DC (24V nominal)
Temperature range	-60°C...+65°C (-76°F...149°F)
Enclosure	IP67, 1Exd[ia]IICT6X
Weight	1.6kg (aluminum alloy), 4.5kg (SS316 stainless steel)

*-available when selecting the appropriate configuration

Fixed gas detectors

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 requiremets 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

Housing options

Aluminium
with epoxy coating

SS316L
Stainless steel

Basic technical specifications

Modifications	DGS ERIS-230-IR (Infrared sensor) DGS ERIS-230-CAT (Termocatalytic sensor) DGS ERIS-230-EC (Electrochemical sensor)
Indication	OLED display, Status LEDs
Communication	4-20 mA, RS-485 MODBUS RTU, HART 7, LoRaWAN*, E-Wire*; Bluetooth* for settings
Current output relays	2 alarm, 1 fault. 3 x 2A@220VAC SPDT
Input voltage range	12 to 36V DC (24V nominal)
Temperature range	-60°C...+65°C (-76°F...149°F)
Enclosure	IP67, 1Exd[ia]IICT6X
Weight	1.6kg (aluminum alloy), 4.5kg (SS316 stainless steel)

*-available when selecting the appropriate configuration

Fixed gas detectors

DGS ERIS-PID
Fixed VOCs gas detector

DGS ERIS-PID is the reliable explosion-proof gas detector developed for volatile organic compounds 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-PID takes VOC leaks under control.

Features and benefits

Applications

- VOCs 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

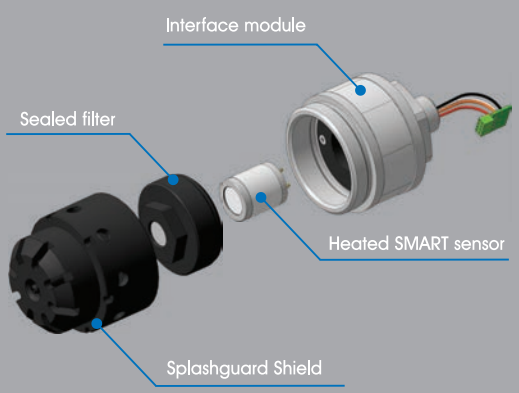
- Special sensor shield design
- High-speed response
- Light and sound alarm

Cost-effective

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

Frostproof OLED display

- Current concentration and units
- Log trends and settings



Basic technical specifications

Gases	VOC (volatile organic compounds)
Indication	Status LEDs
Communication	4-20 mA, RS-485 MODBUS RTU, HART 7, LoRaWAN*, E-Wire*; Bluetooth* for settings
Current output relays	2 alarm, 1 fault. 3 x 2A@220VAC SPDT
Input voltage range	12 to 36V DC (24V nominal)
Temperature range	-60°C...+65°C (-76°F...149°F)
Enclosure	IP67, 1Exd[ia]IICT6X
Weight	1.6kg (aluminum alloy), 4.5kg (SS316 stainless steel)

*-available when selecting the appropriate configuration

Fixed gas detectors

DGS ERIS-230FR
Fixed freon gas detector

SULPHUR HEXAFLUORIDE (Sf6)

DGS ERIS-230-FR is the reliable explosion-proof gas detector developed for 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 gases leaks under control.

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

Basic technical specifications

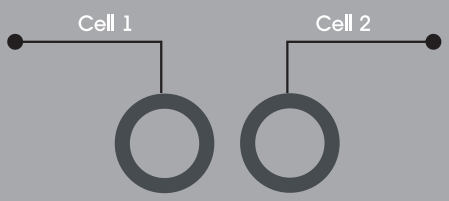
Modifications	FR-Halocarbon (freon) Sf6- Sulfur HEXAFLUORIDE
Indication	OLED display, Status LEDs
Communication	4-20 mA, RS-485 MODBUS RTU, HART 7, LoRaWAN*, E-Wire*; Bluetooth* for settings
Current output relays	2 alarm, 1 fault. 3 x 2A@220VAC SPDT
Input voltage range	12 to 36V DC (24V nominal)
Temperature range	-60°C...+65°C (-76°F...149°F)
Enclosure	IP67, 1Exd[ia]IICT6X
Weight	1.6kg (aluminum alloy), 4.5kg (SS316 stainless steel)

*-available when selecting the appropriate configuration

Fixed gas detectors

Advant 2
Explosion-proof fixed dual channel gas detector

Sensor configuration



Advant 2 is the explosion-proof fixed dual-channel gas detector for continuously measure the presence of explosive, toxic gases, oxygen, carbon dioxide, as well as volatile organic compounds in the air even hazardous zones. The frost-proof and bright high-resolution OLED display enales the gas detector to perform in most extreme environmental conditions and low temperatures.

Features and benefits

User-friendly operation
- Ease of installation and application
- In-field setting and maintenance
- Bright LED indicators
- Multifunctional display
- Extended temperature range
- Audio and visual alarm (optional)

High reliability
- 100% quality control
- Compliance with regulatory documents: GOST, technical regulations, EC directives, etc.
- Environmental stability, poison protection

Accuracy of measurement
- Sensitivity to low
- High repeatability
- Exact accuracy

Efficiency of investments
- Free setting software
- Minimum service life - 12 years
- Optional extended warranty up to 5 years*
- Low power consumption**
- In-field calibration

Frost resistant OLED display
- Display actual temperature in range of -60°C..+65°C
- Simultaneous displaying the current values, units
- Intuitive settings
- Selection of measurement units (ppm and mg/m^3)

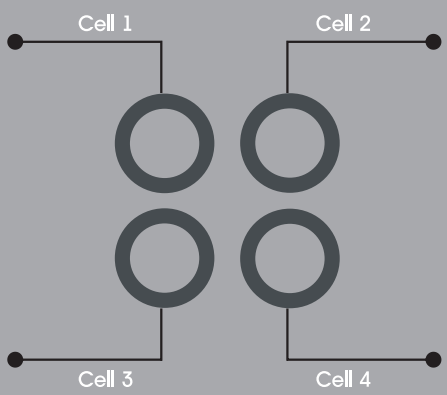
Basic technical specifications

Indication	Frost-proof OLED-display, status LED
Output signals	3-Wire 4-2 mA, RS-485 Modbus, HART, Bluetooth*
Supply voltage	12-36V DC (nominal value - 24V)
Temperature range	-60°C...+65°C (-40°C...+50°C electrochemical sensors limit)
Enclosure	IP67, 1Exd [ia]IICT6X
Weight	1.85 kg (aluminum alloy)

Fixed gas detectors

Advant 4
Explosion-proof fixed
four channel gas detector

Sensor configuration



Advant 4 is the explosion-proof fixed four-channel gas detector for continuously measure the presence of explosive, toxic gases, oxygen, carbon dioxide, as well as volatile organic compounds in the air even hazardous zones. The frost-proof and bright high-resolution OLED display enables the gas detector to perform in most extreme environmental conditions and low temperatures.

Features and benefits

User-friendly operation

- Ease of installation and application
- In-field setting and maintenance
- Bright LED indicators
- Multifunctional display
- Extended temperature range
- Audio and visual alarm (optional)

High reliability

- 100% quality control
- Compliance with regulatory documents: GOST, technical regulations, EC directives, etc.
- Environmental stability, poison protection

Accuracy of measurement

- Sensitivity to low
- High repeatability
- Exact accuracy

Efficiency of investments

- Free setting software
- Minimum service life - 12 years
- Optional extended warranty up to 5 years*
- Low power consumption**
- In-field calibration

Frost resistant OLED display

- Display actual temperature in range of -60°C..+65°C
- Simultaneous displaying the current values, units
- Intuitive settings
- Selection of measurement units (ppm and mg/m^3)

Basic technical specifications

Indication	Frost-proof OLED-display, status LED
Output signals	3-Wire 4-2 mA, RS-485 Modbus, HART, Bluetooth*
Supply voltage	12-36V DC (nominal value - 24V)
Temperature range	-60°C...+65°C (-40°C...+50°C electrochemical sensors limit)
Enclosure	IP67, 1Exd [ia]IICT6X
Weight	2.5 kg (aluminum alloy)

Wireless fixed gas detector

DGS ERIS-210RF
Wireless fixed gas detector

DGS ERIS-210 RF is a wirelless single-channel gas detector with autonomous power and data transmission over the radio channel. It allows providing safety in places of lack of engineering networks. It serves for warning about exceeding the mandatory threshold values for the concentrations of explosive, toxic gases, oxygen and carbon dioxide in the air handling zone.

Features and benefits

Applications

- Ease of installation and application
- On-site setting and checking
- Notification by LED indication
- Easy battery replacement
- Prompt servicing

Reliability and durability

- Sensitivity to low gas concentrations
- Stability of reading
- Compliance with regulatory documents:
- GOST, technical regulations, EC directives, etc.
- Environmental stability, poison protection

Cost-effective

- Free setting and operation software
- Minimum service life -12 years
- Optional extended warranty up to 2 years*
- Field calibration (reduction of maintenance costs)
- Service life without recharging up to 2 years

Basic technical specifications

Indication	Status LEDs
Wireless	LoRaWAN, E-Wire
Output signals	4-20 mA
Temperature range	-55°C...+65°C
Enclosure	IP67, 1Exd [ia]IICT6X
Weight	1.6kg (aluminum alloy), 3.7kg (SS316 stainless steel)

*- advanced feature

Wireless fixed gas detector

Advant 2RF
Wireless fixed gas detector

Advant 2-RF is the explosion-proof fixed dual-channel gas detector for continuously measure the presence of explosive, toxic gases, oxygen, carbon dioxide, as well as volatile organic compounds in the air even hazardous zones. Wireless gas detector

Features and benefits

User-friendly operation
- Ease of installation and application
- In-field setting and maintenance
- Bright LED indicators
- Multifunctional display
- Extended temperature range
- Audio and visual alarm (optional)

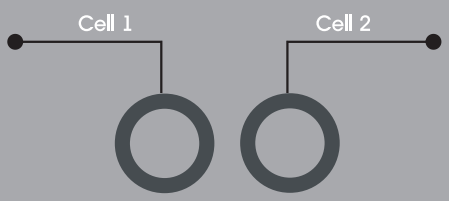
High reliability
- 100% quality control
- Compliance with regulatory documents: GOST, technical regulations, EC directives, etc.
- Environmental stability, poison protection

Accuracy of measurement
- Sensitivity to low
- High repeatability
- Exact accuracy

Efficiency of investments
- Free setting software
- Minimum service life - 12 years
- Optional extended warranty up to 5 years*
- Low power consumption**
- In-field calibration

Frost resistant OLED display
- Display actual temperature in range of -60°C..+65°C
- Simultaneous displaying the current values, units
- Intuitive settings
- Selection of measurement units (ppm and mg/m^3)

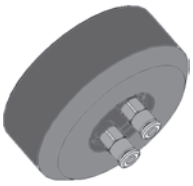
Sensor configuration



Main technical specifications

Indication	Frost-proof OLED-display, status LED
Wireless	LoRaWAN, E-Wire
Output signals	4-20 mA
Supply voltage	12-36V DC (24V nominal)
Temperature range	-60°C...+65°C (-40°C...+50°C electrochemical sensors limit)
Enclosure	IP67, 1Exd [ia]IICT6X
Weight	1.85 kg (aluminum alloy)

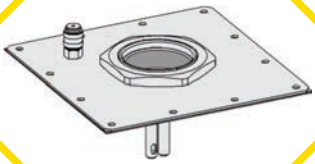
Fixed gas detector accessories



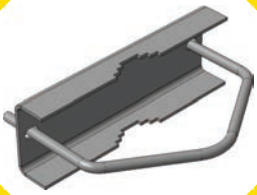
Calibration nozzle /
part number CN

Protective visor /
part number PV

Insect guard /
part number IG



Duct mount kit /
part number DMK

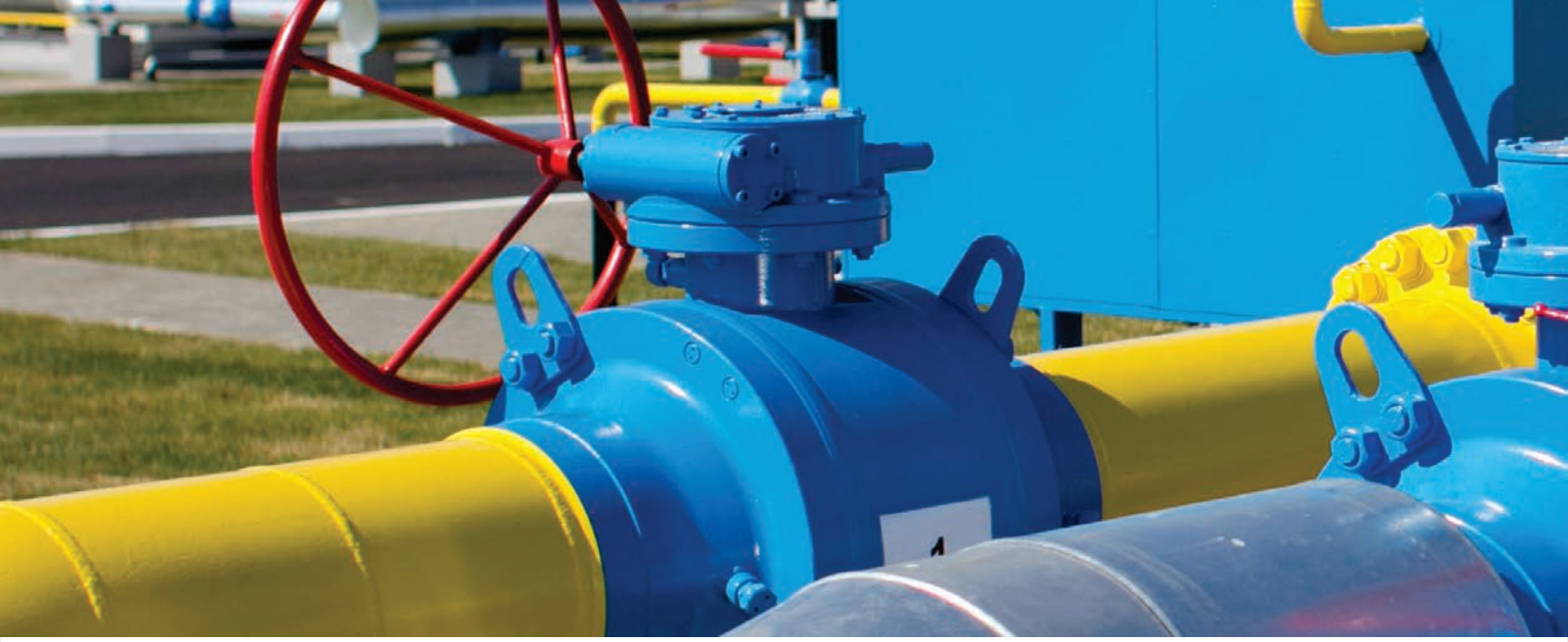


Tube mount kit /
part number TMK

Sensors DGS-SMART

Sensor type: Ifrared

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
3	IR-CH4-100	Methane CH4, 0-100% LEL
4	IR-CH4-50	Methane CH4, 0-50% LEL
7	IR-C2H4-50	Ethylene C2H4, 0-50% LEL
10	IR-C3H8-100	Propane C3H8, 0-100% LEL
11	IR-C3H8-50	Propane C3H8, 0-50% LEL
13	IR-C4H10-50	Butane C4H10, 0-50% LEL
15	IR-C4H8-50	1-butene C4H8, 0-100% LEL
17	IR-i-C4H10-50	Isobutane i-C4H10, 0-50% LEL
19	IR-C5H12-50	Pentane C5H12, 0-50% LEL
21	IR-S5N10-50	Cyclopentane, 0-50% LEL
23	IR-C6H14-50	Hexane C6H14, 0-50% LEL
25	IR-S6N12-50	Cyclohexane S6N12, 0-50% LEL
27	IR-C2H6-50	Ethane C2H6, 0-50% LEL
29	IR-SN3OH-50	Methanol, 0-50% LEL
30	IR-SN3OH-100	Methanol, 0-100% LEL
31	IR-CH-Mo-50	Petroleum, 0-50% LEL
33	IR-S6N6-50	Benzene C6H6, 0-50% LEL
35	IR-S3N6-50	Propylene C3H6, 0-50% LEL
37	IR-C2H5OH-50	Ethanol C2H5OH, 0-50% LEL
39	IR-S7N16-50	Heptane, 0-50% LEL
41	IR-C2H4O-50	Ethylene oxide, 0-50% LEL
43	IR-SN3SOSN3-50	Acetone CH3COCH3, 0-50% LEL
45	IR-i-C4H8-50	Isobutylene i-C4H8, 0-50% LEL
47	IR-C5H8-50	Isoprene C5H8, 0-50% LEL
51	IR-S3N3N-50	Acrylonitrile, 0-50% LEL
53	IR-S7N8-50	Toluene, 0-50% LEL
57	IR-S8N18-50	N-octane S8N18, 0-50% LEL
59	IR-S4N8O2-50	Ethyl acetate, 0-50% LEL
61	IR-S6N12O2-50	Butyl acetate, 0-50% LEL
63	IR-S4N6-50	1,3-butadiene (butadiene) S4N6, 0-50% LEL
65	IR-S2N4Cl2-50	1,2-dichloroethane S2N4Cl2, 0-50% LEL
67	IR-C2H5SN-50	Dimethyl C2H5SH, 0-50% LEL



Sensors DGS-SMART

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
69	IR-S6N12-50	1-hexene C6H12, 0-50% LEL
70	IR-S4N9ON-50T	1-butanol C4H9OH, 0-50% LEL
71	IR-S4N9ON-50	1-butanol C4H9OH, 0-50% LEL
73	IR-sec-S4N9ON-50	Sec-butanol, 2-C4H9OH, 0-50% LEL
75	IR-S9N20-50	Nonane S9N20, 0-50% LEL
77	IR-C8H8-50	Styrene, 0-50% LEL
79	IR-S2N3Cl-50	Vinyl chloride, 0-50% LEL
81	IR-S3N6-50	Cyclopropane C3H6, 0-50% LEL
83	IR-S2N6O-50	Dimethyl ether S2N6O, 0-50% LEL
85	IR-S4N10O-50	Diethyl ether S4N10O, 0-50% LEL
87	IR-C3H6O-50	Propylene oxide, 0-50% LEL
89	IR-S6N5Cl-50	Chlorobenzene C6H5Cl, 0-50% LEL
91	IR-S4N8O-50	2-butanone C4H8O, 0-50% LEL
93	IR-S4N10O-50	2-methyl-2-propanol S4N10O, 0-50% LEL
95	IR-S5N12O-50	2-methoxy-2-methylpropane (MTBE) S5N12O, 0-50% LEL
96	IR-n-S8N10-50	Para-xylene p-S8N10, 0-50% LEL
97	IR-of-S8N10-50	Ortho-Xylene o-S8N10, 0-50% LEL
98	IR-S3N8O-50	S3N8O isopropyl alcohol, 0-50% LEL
100	IR-S8N14-50	1-octene S8N14, 0-50% LEL
101	IR-SO2-5	Carbon dioxide CO2, 0-5.0% ob.d.

Sensor type: catalytic

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
302	CT-CH4-50	Methane CH4, 0-50% LEL
306	CT-C2H4-50	Ethylene C2H4, 0-50% LEL
308	CT-C3H8-50	Propane C3H8, 0-50% LEL
312	CT-C4H10-50	Butane C4H10, 0-50% LEL
314	CT-C4H8-50	1-butene C4H8, 0-100% LEL
316	CT-i-C4H10-50	Isobutane i-C4H10, 0-50% LEL
318	CT-C5H12-50	Pentane C5H12, 0-50% LEL
320	CT-S5N10-50	Cyclopentane, 0-50% LEL
322	CT-C6H14-50	Hexane C6H14, 0-50% LEL
324	CT-S6N12-50	Cyclohexane S6N12, 0-50% LEL
326	CT-C2H6-50	Ethane C2H6, 0-50% LEL

Sensors DGS-SMART

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
328	CT-SN3OH-50	Methanol, 0-50% LEL
330	CT-S6N6-50	Benzene C6H6, 0-50% LEL
332	CT-S3N6-50	Propylene C3H6, 0-50% LEL
334L	CT-C2H5OH-50	Ethanol C2H5OH, 0-50% LEL
336	CT-S7N16-50	Heptane S7N16, 0-50% LEL
338	CT-C2H4O-50	C2H4O ethylene oxide, 0-50% LEL
340	CT-SN3SOSN3-50	Acetone CH3COCH3, 0-50% LEL
342	CT-i-C4H8-50	Isobutylene i-C4H8, 0-50% LEL
344	CT-C5H8-50	Isoprene C5H8, 0-50% LEL
346	CT-S2N2-50	Acetylene C2H2, 0-50% LEL
348	CT-S3N3N-50	Acrylonitrile, 0-50% LEL
350	CT-S7N8-50	Toluene, 0-50% LEL
352	CT- S8N10-50	Ethylbenzene S8N10, 0-50% LEL
354	CT-S8N18-50	n-octane S8N18, 0-50% LEL
356	CT- S4N8O2-50	acetate, 0-50% LEL
358	CT- S6N12O2-50	Butyl acetate, 0-50% LEL
360	CT-S4N6-50	1,3-butadiene (butadiene) S4N6, 0-50% LEL
362	CT-S2N4Cl2-50	1,2-dichloroethane S2N4Cl2, 0-50% LEL
364	CT-C2H5SN-50	Dimethyl C2H5SH, 0-50% LEL
366	CT-S6N12-50	1-hexene C6H12, 0-50% LEL
368	368 CT-S4N9ON-50	1-butanol C4H9OH, 0-50% LEL
370	CT-sec-S4N9ON-50	sec-butanol, 2-C4H9OH, 0-50% LEL
372	CT-S9N20-50	Nonane S9N20, 0-50% LEL
374	CT-C8H8-50	Styrene, 0-50% LEL
376	CT-S2N3Cl-50	Vinyl chloride, 0-50% LEL
378	CT-S3N6-50	Cyclopropane C3H6, 0-50% LEL
380	CT-S2N6O-50	Dimethyl ether S2N6O, 0-50% LEL
382	CT-S4N10O-50	Diethyl ether S4N10O, 0-50% LEL
384	CT-C3H6O-50	Propylene oxide, 0-50% LEL
386	CT-S6N5Cl-50	Chlorobenzene C6H5Cl, 0-50% LEL
388	CT-S4N8O-50	2-butanone C4H8O, 0-50% LEL
390	CT-S4N10O-50	2-methyl-2-propanol S4N10O, 0-50% LEL
392	CT-S5N12O-50	2-methoxy-2-methylpropane (MTBE) S5N12O, 0-50% LEL
393	CT-p-S8N10-50	Para-xylene p-S8N10, 0-50% LEL
394	CT-of-S8N10-50	Ortho-Xylene o-S8N10, 0-50% LEL

Sensors DGS-SMART

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
395	CT-S3N8O-50	Isopropyl alcohol, 0-50% LEL
397	CT-S8N14-50	1-octene S8N14, 0-50% LEL
399	CT-N2-50	Hydrogen H2, 0-50% LEL
401	CT-NN3-50	Ammonia NH3, 0-50% LEL

Sensor type: electrochemical

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
501	EC-HCL-30	HCL hydrogen chloride, 0 ... 30 ppm
502	EC-HF-5	The hydrogen fluoride HF, 0 ... 5 ppm
503	EC-HF-10	The hydrogen fluoride HF, 0 ... 10 ppm
504	EC-O3-1	Ozone O3 0 ... 1 ppm
506	EC-NO-50	NO nitrogen monoxide, 0 ... 50 ppm
507	EC-NO-250	NO nitrogen monoxide, 0 ... 250 ppm
508	EC-NO2-20	Nitrogen dioxide NO2, 0 ... 20 ppm
509	EC-NH3-100	Ammonia NH3, 0 ... 100 ppm
510	EC-NH3-500	Ammonia NH3, 0 ... 500 ppm
511	EC-NH3-1000	Ammonia NH3, 0 ... 1000 ppm
512	EC-HCN-10	Hydrogen cyanide HCN, 0 ... 10 ppm
513m	EC-HCN-15	Hydrogen cyanide HCN, 0 ... 15 ppm
514	EC-HCN-30	Hydrogen cyanide HCN, 0 ... 30 ppm
515	EC-HCN-100	Hydrogen cyanide HCN, 0 ... 100 ppm
516	EC-CO-200	Carbon monoxide CO, 0 ... 200 ppm
517	EC-CO-500	Carbon monoxide CO, 0 ... 500 ppm
518	EC-CO-5000	Carbon monoxide CO, 0 ... 5000 ppm
519	EC-SO2-5	Sulfur dioxide SO2, 0 ... 5 ppm
520	EC-SO2-20	Sulfur dioxide SO2, 0 ... 20 ppm
521	EC-SO2-50	Sulfur dioxide SO2, 0 ... 50 ppm
522	EC-SO2-100	Sulfur dioxide SO2, 0 ... 100 ppm
523	EC-SO2-2000	Dioxide SO2 Sulfur, 0 ... 2000 ppm
524	EC-Cl2-5	Chlorine Cl2, 0 ... 5 ppm
525	EC-Cl2-20	Chlorine Cl2, 0 ... 20 ppm
526	EC-O2-30	O2 Oxygen 0 ... 30% ob.d.
537	EC-SCl2O-1	Carbonyl chloride (phosgene) SCl2O, 0 ... 1 ppm
538	EC-F2-1	Fluorine F2, 0 ... 1 ppm

Sensors DGS-SMART

Sensor type: photoionization

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
701	FD-C2H3Cl-10	Vinyl chloride C2H3Cl, 0 ... 10 ppm
702	FD-C2H3Cl-100	Vinyl chloride C2H3Cl, 0 ... 100 ppm
703	FD-C2H3Cl-1000	Vinyl chloride C2H3Cl, 0 ... 1000 ppm
704	FD-C6H6-10	Benzene C6H6, 0 ... 10 ppm
705	FD-C6H6-100	Benzene C6H6, 0 ... 100 ppm
706	FD-C6H6-1000	Benzene C6H6, 0 ... 1000 ppm
707	FD-C8H10-10	Ethylbenzene is C8H10, 0 ... 10 ppm
708	FD-C8H10-100	Ethylbenzene is C8H10, 0 ... 100 ppm
709	FD-C8H10-1000	Ethylbenzene is C8H10, 0 ... 1000 ppm
710	FD-C8H8-10	Styrene C8H8, 0 ... 10 ppm
711	FD-C8H8-100	Styrene C8H8, 0 ... 100 ppm
712	FD-C8H8-1000	Styrene C8H8, 0 ... 1000 ppm
713	FD-C5H10O2-10	n-Propyl acetate C5H10O2, 0 ... 10 ppm
714	FD-C5H10O2-100	n-Propyl acetate C5H10O2, 0 ... 100 ppm
715	FD-10-C3H5SlO	Epichlorohydrin C3H5SlO, 0 ... 10 ppm
716	FD-C4H9NO-10	N, N-dimethylacetamide C4H9NO, 0 ... 10 ppm
717	FD-10-C7H7Sl	Benzyl chloride C7H7Sl, 0 ... 10 ppm
718	FD-C5H6O2-10	Furfuryl alcohol C5H6O2, 0 ... 10 ppm
719	FD-C2H5OH-10	Ethanol C2H5OH, 0 ... 10 ppm
720	FD-C2H5OH-100	Ethanol C2H5OH, 0 ... 100 ppm
721	FD-C2H5OH-1000	Ethanol C2H5OH, 0 ... 1000 ppm
722	FD-C2H7NO-10	2-aminoethanol C2H7NO, 0 ... 10 ppm
723	FD-CH2O-10	Formaldehyde CH2O, 0 ... 10 ppm
724	FD-C3H7OH-10	Propanol C3H7OH, 0 ... 10 ppm
725	FD-C3H7OH-100	Propanol C3H7OH, 0 ... 100 ppm
726	FD-C2H4O2-100	Acetic acid C2H4O2, 0 ... 100 ppm
727	FD-i-C4H8-10	Isobutylene i-C4H8, 0 ... 10 ppm
728	FD-i-C4H8-100	Isobutylene i-C4H8, 0 ... 100 ppm
729	FD-i-C4H8-1000	Isobutylene i-C4H8, 0 ... 1000 ppm
730	FD-C4H9OH-10	N-butanol C4H9OH, 0 ... 10 ppm
731	FD-C4H9OH-200	N-butanol C4H9OH, 0 ... 200 ppm
732	FD-C4H11N-10	Diethylamine C4H11N, 0 ... 10 ppm
733	FD-C4H11N-100	Diethylamine C4H11N, 0 ... 100 ppm

Sensors DGS-SMART

Sensor number	Sensor name	Gas name Measurement range (ppm) Lower explosive limit (%)
734	FD-CH3OH-10	Methanol CH3OH, 0 ... 10 ppm
735	FD-CH3OH-100	Methanol CH3OH, 0 ... 100 ppm
736	FD-C3H5ClO2-10	Ethylchloroformate C3H5ClO2, 0 ... 10 ppm
737	FD-C7H8-10	Toluene C7H8, 0 ... 10 ppm
738	FD-C7H8-100	Toluene C7H8, 0 ... 100 ppm
739	FD-C6H5OH-10	Phenol C6H5OH, 0 ... 10 ppm
740	FD-C6H5OH-100	Phenol C6H5OH, 0 ... 100 ppm
741	FD- (CH3) 2S6N4-10	Xylene (CH3) 2S6N4, 0 ... 10 ppm
742	FD- (CH3) 2S6N4-100	Xylene (CH3) 2S6N4, 0 ... 100 ppm
743	FD-SF6-10	Hexafluoride SF6 sulfur, 0 ... 10 ppm
744	FD-SF6-100	Hexafluoride SF6 sulfur, 0 ... 100 ppm
745	FD-C2H4O-10	Ethylene oxide, 0 ... 10 ppm
746	FD-C2H4O-100	Ethylene oxide, 0 ... 100 ppm
747	FD-AsH3-10	Arsine AsH3, 0 ... 10 ppm
748	FD-PH3-10	Phosphine PH3, 0 ... 10 ppm
749	FD-S10N8-10	Naphthalene C10H8, 0 ... 10 ppm
750	FD-Br2-2	Bromine Br2, 0 ... 2 ppm
751	751 FD-NH3-1000	Ammonia NH3, 0 ... 1000 ppm
752	752 FD-20-S2N5SH	Ethanethiol S2N5SH, 0 ... 20 ppm
753	753 FD-10-SN3SH	Methanethiol SN3SH, 0 ... 20 ppm

Portable gas detectors

PG ERIS-414
Portable multi-gas detector

A portable four-channel gas detector designed for measuring the concentration of a vast range of hazardous gases in work areas, wells and closed rooms with high accuracy. Our products are designed to withstand the harshest, toughest industries, including oil and gas, utilities, waste water treatment, telecommunications, marine and others.

Features and benefits

Wide scope of application

- Flexible configuration of a wide range of full-size (4R) sensors infrared, electrochemical, thermocatalytic sensors support
- Wireless features
- Extended temperature range
- Frost-proof OLED display
- Multi-language support
- Selection of unit indication (%vol., %LEL ppm, mg/m3)
- Wireless settings and control
- Variety of accessories

Ergonomic and robust

- Lightweight and shock absorption design
- One button operation
- High-quality rubber-polymer coating
- Shock absorption design

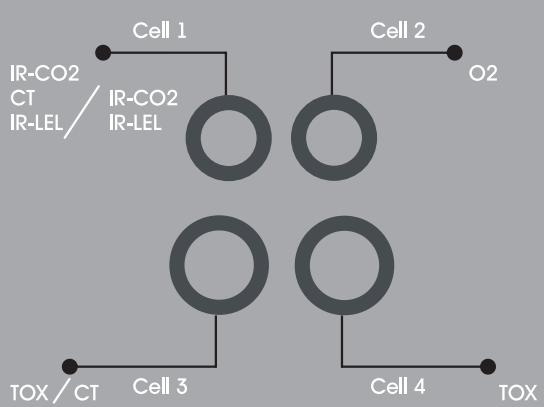
Accuracy and reliability

- Embedded pressure and temperature sensors for higher accuracy
- Password protection interface
- Self-diagnostic and auto-repair features

Long life

- Li-Pol battery
- 20 hours of battery life
- Warranty 24 months

Sensor configuration



Main technical specifications

Indication	status LEDs, frost proof OLED-display
Wireless interfaces	Bluetooth, LoRaWAN, E-Wire
Temperature range	-45°C...+50°C
Enclosure	IP66, 1Exd [ia]IICT4 GbX
Coating	Rubberized impact resistant polymer
Weight	250 g

Portable gas detectors

PG ERIS-411
Portable gas detector

PG ERIS-411 - Individual portable single-channel gas detector for monitoring of explosive concentrations of flammable gas, carbon dioxide, toxic gases or oxygen. It allows you to control the level of gas content in staff locations: work areas, wells, and confined spaces.

Features and benefits

Multi-zone applications

- Possibility of using thermocatalytic, electrochemical
- and infrared optical sensors (optional)
- Ensuring the safety of personnel in the working area welss, and confined spaces

Ease of use

- Lightweight housing (200g)
- Compact size
- Ergonomic design
- Intuitive interface
- One-button control
- Easy sensor replacement

Accuracy and reliability

- Shockproof housing
- Self-diagnostic function
- Nauthorized access protection
- Light, sound and vibration alarm
- High sensitivity
- Stability and durability
- Bright screen

Powerfull

- Work durability up to 20 hours (normal conditions)
- Ability to charge anywhere (using the dock ahd USB cabel)
- Work durability at a temperature of -30°C (not less than 8 hours)

Bluetooth

- Option for wireless data transfer and instrument settings

Basic technical specifications

Indication	Status LEDs
Wireless interface	Bluetooth, 2.4 Ghz radio channel, LoRaWAN, E-Wire, GLONASS, GSM
Environmental condition	-45°C to +50°C
Enclosure	Ip66, 1Exd [ia]IICT4 GbX
Coating	Rubberized impact-resistant polymer
Weight	200 g

Portable gas detectors accessories

Docking station

Charget 230V AC,
CEE 7/16 (Europ)

Manual aspirator pump
kit with probe

Electrical aspirator pump
kit with probe

Sampling hose (3m)
with filter

Calibration nossle

Gas detectors controllers

SGM ERIS-110
Gas detectors controllers

Fully configurable systems of the SGM ERIS series provide reliable control of gas concentration, with a wide range of functionality and integration capabilities. Minimal technical maintenance, connection of a large number of sensors and possibility of integration into measuring complexes provide the systems of the SGM ERIS series with optimal solution for important tasks' fulfilment.

Capabilities and Advantages

- Compact size design
- Anti-shock housing
- Built-in alarms (audio and visual).
- Values indication
- RS-485 and RS-232 connectivity check
- Cable line tests
- Alarm acknowledgment
- Relays
- Device lifetime - 12 years

Basic technical specifications

Indication and alerting	LEDs, controller and MAP displays, audible indication
Adjustment	through MAP or PC using free software
Input signal	4-20 mA or Wheatstone bridge, RS-485 Modbus
Output signal	4-20 mA, RS-485 Modbus
Relay	Threshold 1 and 2, Breakdown for each channel
Power supply voltage	24 V DC or 220 V AC with power supply unit
Operating conditions	Temperature range -10 …+50°C, humidity max 95%
IP Rating	IP20

Management and logging module (MAP)

- Controllers calibration
- Thresholds settings
- Log and trends storage
- Log storage interval setting
- External PC interface

Hardware Version

19"-rack mount

DIN-rack mount

Gas detectors controllers

SGM ERIS-130
Gas detectors controllers

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.

Capabilities and Advantages

- Up to 256 detectors connection (RS-485)
- Bright and wide LED display
- Built-in alarms (audio and visual).
- Thresholds settings
- Controllers calibration
- AC or DC power supply
- Ethernet output interface
- Wireless connections
- Log and trends storage
- Remote log
- Anti-shock housing
- Cable line tests
- Alarm acknowledgment
- Relays

Basic technical specifications

Indication and alerting	LEDs, displays, audible alarms
Management	Functional key, Remote management
Input signals	4-20 mA – 8 channels, RS-485 Modbus – 32 channels
Output signals	RS-232, RS-485 Modbus, Ethernet
Relays	Threshold 1 and 2, 3; Breakdown – 4 relays for each channel
Supply voltage	24 V DC or 220 V AC with power supply unit
Temperature conditions	-10°C…+50°C
IP Rating	IP20

Fire flame detector

ERIS IP-330
Flame detector

ERIS IP-330 triple infrared explosion-proof flame detector addresses a wide range of fire protection applications both indoors and outdoors. Detecting a wide range of Hydrocarbon and Non-Hydrocarbon flaming fires. Optical detection of radiant energy in a solid angle field of view enables coverage of a large risk area.

Features and benefits

Long distance detection

Extremly wide viewing angle up to 120°
Explosion-proof housing with high visiblity color
High speed sensors and response time
Analog and digital output for simple connectivity
(mA, relay, MODBUS, HART) Events Log

Fix fire alarm status

Switch off fire alarm for tests feature
Swivel bracket allows to be installed and aligned covering the hazard

Enables quicker and easier installation

Comprehensive automatic Self-test
Extended warranty period
False alarm rejection
Wide range of operation temperatures -60...+90°C
(-76...185°F), short time 125°C (257°F)

Good resistance against the influence of external factors

Suitable fo outdoor application with protective visor

Main technical specifications

Detection range	Heptane 60 m
	Ethanol 30 m
Noise immunity	Incandescent light 5000 Lux
	Halogen lamp 5000 Lux
	Heated body
	Direct sunlight
Cone of detection	90 °
Response time	Less then 5 seconds
Output signal	4-20 mA+HART 7, RS-485 Modbus
Relay	1 alarm, 1 fault
Input voltage	9...32 V DC
IP Rating	IP67
Temperature range	-60°C to +85°C (-76°F to 185°F)
Indication	Status LEDs

Housing options
Aluminium with epoxy coating
Color Red / Yellow

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