







ERIS wireless gas detectors

-  Autonomous power supply
-  Savings on the laying and maintenance of cable passages
-  Simple integration with traditional wired systems
-  Bluetooth setup and diagnostics



Automatic data transfer up to 1 km via wireless E-WIRE / LoRaWAN communication lines to the workstations through stationary access points.

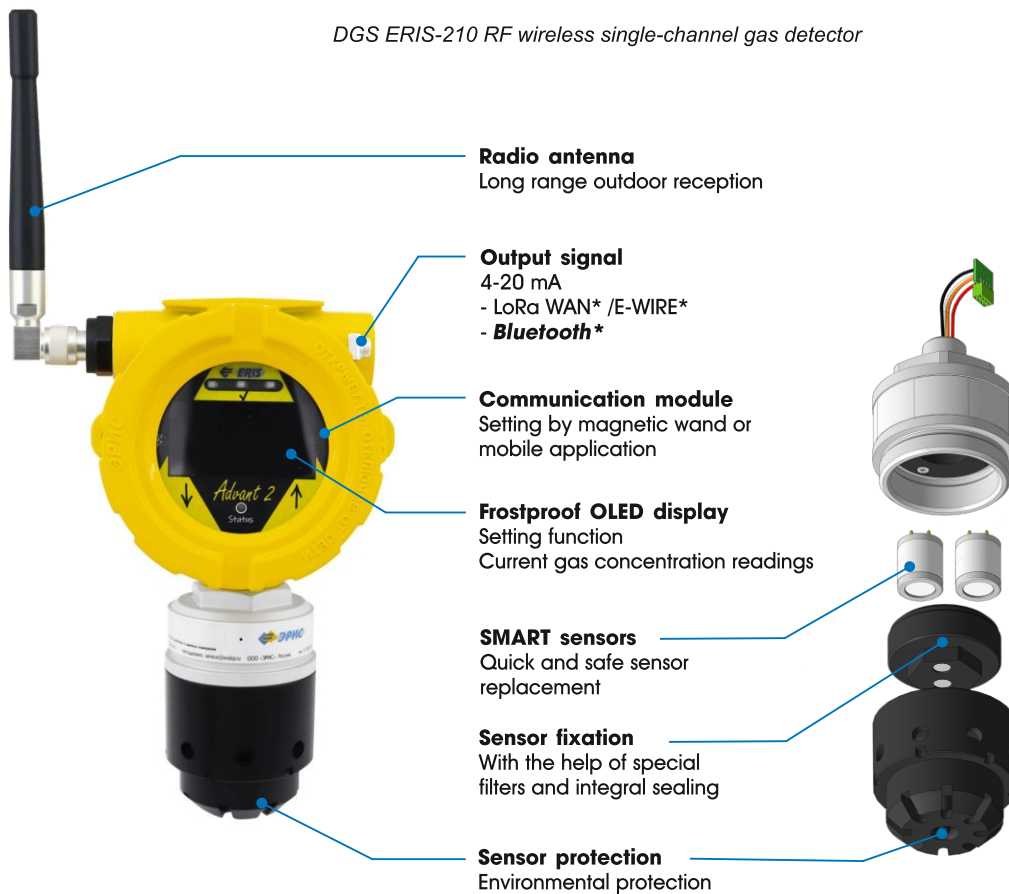
It is integrated into the ERIS BSK-400 wireless system.



ERIS wireless gas detectors can be equipped with one or two sensors



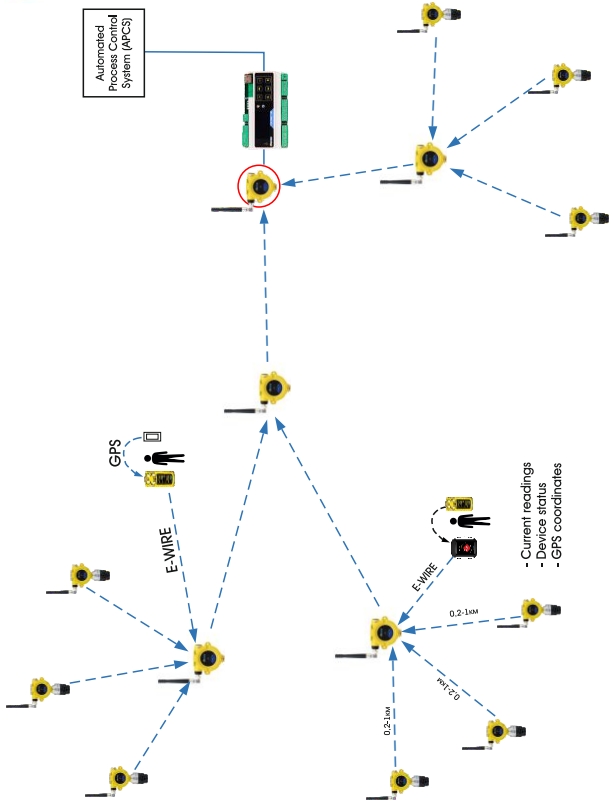
DGS ERIS-210 RF wireless single-channel gas detector



Advant 2 RF wireless dual-channel gas detector

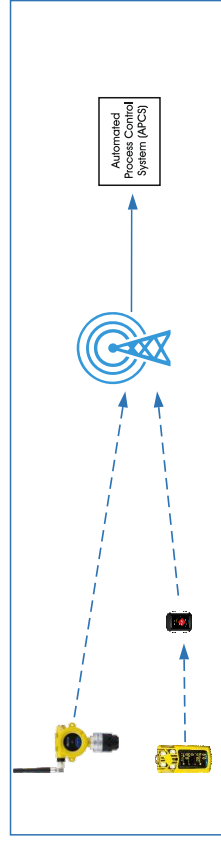
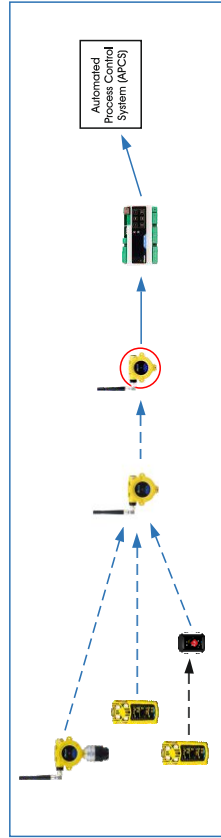
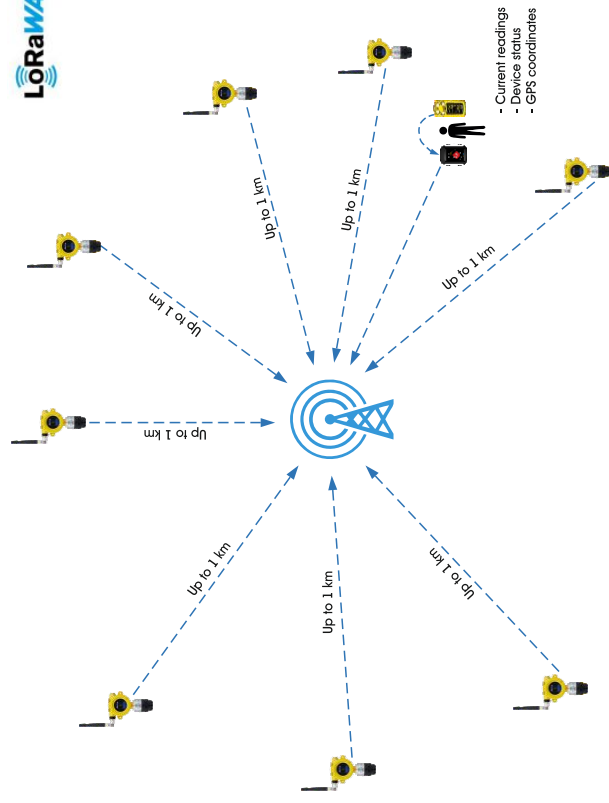


Construction of wireless network for gas contamination monitoring using E-WIRE devices via E-WIRE protocol



- Wireless gas detector DGS ERIS-210 RF / Advant 2 RF
- Portable gas detector PG ERIS-414 / PG ERIS-411

Construction of wireless network for gas contamination monitoring using ERIS devices via LoRaWAN protocol



- Controller
- S-Point SOS button
- LoRaWAN Base Station
- Explosion-proof tablet / telephone
- Wireless network
- Wired network

Organization of wireless gas control system ERIS BSK-400 is possible via LoRaWAN protocol.

It is possible to connect and transmit data via E-WIRE protocol in the absence of LoRa base station, or provided that the network range is over 1 km.

ERIS devices for wireless gas contamination monitoring system development



- DGS ERIS-210

Wireless 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.



- Advant 2 RF

Wireless dual-channel gas detector with autonomous power and data transmission over the radio channel. It serves for measuring concentrations of explosive, toxic gases, oxygen, carbon dioxide, as well as volatile organic compounds in the air handling zone.



- PG ERIS-414

Individual portable four-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.



- S-Point SOS button

Wireless wearable emergency call point "ERIS S-Point" allows sending alarms to all the paired devices even if other connections unreachable. S-Point prevents emergency accidents on time to keep industrial safety and save the lives of employees.



- DGS ERIS-210 with repeater function

Explosion-proof sensor-repeater of the sensors-gas detectors signal with LED indicators and a wireless data transmission module. It is designed for organizing a wireless network: receiving and transmitting data from gas detectors to a modem.



- DGS ERIS-210 with modem function

Explosion-proof sensor-modem with digital interface RS-485 Modbus RTU and LED indication for receiving data from gas detectors and repeaters.

- Controller SGM ERIS-130

Multi-channel controller (up to 8 analogue inputs, up to 32 RS-485 channels) allows connecting to the ERIS and most common gas detectors. Controller equipped with bright LED display and embedded audio and visual alarms, relays. Device support log values and programming features.



- Controller ERIS IMPERIUM

Intelligent multi-functional controller. It is capable of receiving signals from all types of gas detectors and other instrumentation and control equipment sensors, as well as controlling technological processes, suppression systems, and flame detection systems. Data is transmitted via an optical channel, can be output to TV monitor or other taps.



Advantages of ERIS wireless devices over stationary:

- Ability to receive data from more than 100 devices, providing comprehensive control of gas contamination
- Range of data transmission from remote objects (up to 20 km)
- Savings on the laying and maintenance of cable passages
- SMART sensor • Possibility of power supply from explosion-proof solar panel

Scopes of wireless gas detectors:



- Petrochemicals and Refining
- Oil and Gas Transportation
- Mineral Resource Extraction



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