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EXO 8 – Blackline

Multi-gas detector 1 to 8 gases connected - modular extension

Technical Specifications

Gas Detection:

- 1 to 8 gases (depending on configuration)
- **Main detectable gases:**
  NH_3, CO, CO_2, H_2S, O_2, NO_2, SO_2, Cl_2, ClO_2, HCN, HF, O_3, PID (COV), LEL-MPS, LEL-IR, COSH, etc.

Sensor Types:

- Electrochemical, NDIR, PID, MPS sensors depending on gas
- High resistance to poisoning (silicone, H_2S)
- Measurement range and resolution adapted to each gas (e.g.: H_2S: 0-100 ppm / 0.1 ppm

Power Supply:

- Rechargeable LiFePO4 battery - 144 Ah
- Replaceable battery, optimized autonomy according to use (100 days with 4 standard gases)

Charging :

- 110/220V or solar (optional)
- Charging time: approx. 12 hours

Function check:

- Self-test on power-up
- Instant transmission of alerts to the cloud
- Event history and auto-logging every minute

Warranty:

- 3 years
- The Blackline full rental option offers a comprehensive warranty for the duration of the contract.

Product description

The Blackline EXO 8 is an ultra-rugged, connected area gas monitor designed for the most demanding industrial environments. It can detect up to 8 gases simultaneously and transmits real-time data via 4G, Bluetooth, or satellite (optional).

Available in diffusion or pump (4-channel) versions, it offers a battery life of up to 100 days with a standard 4-gas configuration (LEL-MPS, H_2S, CO, O_2). Its powerful 360° visual alerts, 110 dB sound alarms, and vibration alerts ensure maximum safety on site.

Detection & Security

Thanks to its modular design, **the EXO 8** can monitor up to eight gases simultaneously, including explosive, toxic and oxygen gases, depending on specific site requirements. It can also be fitted with a gamma radiation sensor, a rare feature for a handheld device, which enhances protection in sensitive environments such as nuclear or chemical sites. Its powerful audible (up to 110 dB) and 360° visual alarms guarantee immediate warning, even in noisy or low-visibility conditions.

Autonomy & Robustness

Designed to withstand the most extreme conditions, its reinforced casing combines aluminum, engineering plastics and rubber protection, ensuring ruggedness and protection against the elements (IP66 certification). ATEX and IECEx certified, it complies with international safety standards for potentially explosive atmospheres, making it perfectly suited to high-risk industrial environments such as oil, gas, chemical or mining sites.

Alarms and connectivity

Blackline Safety's EXO 8 combines long autonomy, international certifications (ATEX, IECEx, CSA) and reinforced resistance (IP66) to meet the requirements of high-risk industrial sites. Easy to deploy, it operates from -20°C to +50°C and can integrate advanced options such as Push-to-Talk, Iridium satellite connectivity or a gamma sensor, for reliable monitoring even in the most isolated areas.

Available Accessories

Designation
4-gas pump module
Gas extension module
GPS beacon
Solar kit
Tripod
Autonomous base
Universal bracket
Blackline Safety cloud station

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List of gases detected

Gaz	Type de capteur	Plage de mesure	Résolution
Ammonia (NH3)	Electrochemical	0-100 ppm	0,1 ppm
Carbon dioxide (CO2)	NDIR	0-500 ppm	50 ppm
Carbon monoxide (CO)	Electrochemical	0-500 ppm	1 ppm
Chlorine (Cl2) [1]	Electrochemical	0-20 ppm	0,1 ppm
Chlorine dioxide (ClO2)[1]	Electrochemical	0-2 ppm	0,01 ppm
COSH (CO and H2S)	Electrochemical	0-500 ppm CO / 0-200 ppm	1 ppm CO / 0,1 ppm H2S
High-grade ammonia (NH3)	Electrochemical	0-500 ppm	1 ppm
High-concentration carbon monoxide (CO)	Electrochemical	0-2000 ppm	1 ppm
High-concentration hydrogen sulfide (H2S)	Electrochemical	0-500 ppm	0,5 ppm
Hydrogen (H2)	Electrochemical	0-40 000 ppm	1% LIE (400 ppm H2)
Hydrogen cyanide (HCN) [1, 4]	Electrochemical	0-30 ppm	0,1 ppm
Hydrogen fluoride (HF)	Electrochemical	0-10 ppm	0,1 ppm
Hydrogen-resistant carbon monoxide (CO-H)	Electrochemical	0-500 ppm	1 ppm
Hydrogen sulfide (H2S)	Electrochemical	0-100 ppm	0,1 ppm
LEL-Infrared (LEL-IR)	NDIR	0-100 % LIE	1 % LIE
LEL-Molecular Spectrometer (LEL-MPS) [3]	MPS	0-100 % LIE	1 % LIE
Nitrogen dioxide (NO2)	Electrochemical	0-50 ppm	0,1 ppm
Oxygen (O2)	Pump electrochemical	0.1% vol.	0,1 % vol.
Ozone (O3) [4]	Electrochemical	0.1 ppm	0,01 ppm
Photoionization (PID)	PID	0-4 000 ppm	Variable : min 0,1 ppm
Sulfur dioxide (SO2)	Electrochemical	0-100 ppm	0,1 ppm

[1] Sensor not compatible with pump module. [2] Depending on correction factor.[3] Operating pressure: 80 to 120 kPa (11.6 to 17.4 psi). [4] Soon compatible with extension module

Communication features

▶Wireless cellular radio

Coverage: More than 100 countries and over 200 operators
Europe: 2G/3G or 2G/4G
North America: 2G/3G or 3G/4G
Australia / New Zealand: 2G/3G or 3G/4G
Antenna: Optimized for regionWireless cellular radio

▶Wireless updates

Modify device configuration: yes
Update device firmware via radio link: yes

▶Localization technology

Radio GPS: 48 high-sensitivity channels
Assisted GPS: yes
GPS accuracy: ~5 m (16 ft) outdoors in open air
Radio locator beacons: Yes, Blackline's exclusive locator beacon technology and site floor plans

▶Wireless satellite radio option

Optional upgrade available to users: yes
Network: Iridium, worldwide coveragee

An interconnected network

The EXO 8 area gas monitor offers unrivalled area control and monitoring in a robust, easy-to-use and easy-to-deploy system.

All information is instantly uploaded to the portal for optimum monitoring and safety. Configuration parameters or gas alarm thresholds can be modified in seconds by radio link, without the need for on-site intervention.

Advanced technical features

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