



Benefits

- Place it anywhere without worry, knowing it will automatically, reliably connect
- Trust it to outlast every job with a 100+ day battery life and options to keep it running indefinitely
- Focus on your work with drop and go units that connect to the cloud in minutes, wherever they're placed
- Access emergency help at any time with Blackline's 24/7 live safety monitoring team
- Built for extremes, know it will handle anything you or Mother Nature throw at it

Quick specs

- 100+ day battery life
- Configurable gas sensor cartridges monitor for up to five gases
- 360° diffusion gas detection
- Optional four-channel pump module
- Internal 4G wireless works in 100+ countries
- Optional Iridium global satellite module
- Internal GPS and beacon location technology

G7 EXO

MOVE YOUR AREA MONITORING PROGRAM INTO THE CLOUD

Until now, conventional area monitors have suffered short battery life, limited configurability and complicated or inadequate connectivity while also being challenging to configure into a seamless network.

G7 EXO is intelligence and versatility wrapped into one game-changing solution. Inside rugged aluminum casing, EXO boasts industry-leading battery life of over 100 days and features a large, full-color display for easy visibility in any condition.

With drop-and-go deployment, all you have to do is turn G7 EXO on and it goes to work streaming environmental data to the cloud. 4G cellular connectivity is built-in, an optional satellite module, delivering reliable connectivity wherever its needed.

Unlike mesh networks, EXO does not require any network configuration — at all. Since it connects directly to the cloud, there's no need for Wi-Fi or radio links to connect personnel and area monitors into a network. This also means there is no limit to the number of devices that can connect to one another.

Area monitoring has never been more straightforward or considerate of your needs.

# SPECIFICATIONS

## Functional settings

SOS latch: Pull latch to trigger SOS alert  
 Low-battery: Configurable threshold  
 Connection lost: Configurable threshold  
 Two-way messages: Custom messages and 10 preconfigured sent to monitoring personnel  
 Maintenance code: Configurable 4 digit  
 Push-to-talk: Send and receive voice messages to other G7 devices

## Gas cartridge features

High gas alert  
 Low gas warning alarm  
 Under limit (UL)  
 Over limit alerts (OL)  
 Bump test and calibration notification  
 Bump test and calibration failure

## Size & weight

Material: Rugged housing built from aluminum, plastic and rubberized bumpers  
 Size: 385 mm x 188 mm x 220 mm (15.1" x 7.4" x 8.7")  
 Weight: 12.25Kg 27 lbs

## Wireless updates

Device configuration changes: Yes  
 Device firmware upgrade OTA: Yes

## User interface

Display: : 4.4" diagonal, 480 by 640 pixel, eight-color active matrix liquid crystal display

Menu system: driven by three-button keypad  
 Power button: On/off  
 SOS latch: Send SOS alert  
 Multi-language support: (EN, FR, ES, DE, IT, NL, PT)

## User notification

Green connectivity light: Blinking (powered), continuous (connected)  
 360-degree visible yellow and red lights  
 Yellow light: Warning alarms  
 Red light: Alerts  
 Blue LiveResponse™ indicator light: Confirmation that a monitoring team has acknowledged an alert

## Cellular wireless radio

Wireless coverage: 100 countries, 200 wireless carriers  
 North America: 3G/4G radio; 3G UMTS bands 2 and 5; 4G bands 2, 4 and 5  
 International: 2G/4G radio; 2G GSM bands E-GSM and PCS; 4G bands 3, 7 and 20  
 Asia Pacific: 3G/4G radio; 3G UMTS band 1; 4G bands 3, 8 and 28  
 Antenna: Internal

## Satellite module

User-upgradable satellite module allows EXO to connect to the iridium satellite network for remote areas outside of cellular connectivity  
 Optional module: Yes  
 Network: Iridium, global coverage  
 Radio: 1621 MHz, 2 Watts  
 Antenna: Internal

## Four-channel pump\*

Optional module: Yes  
 Number of pump channels: 4  
 Sampling period per channel: Adjustable  
 Tubing length per channel: Up to 30 m (100 ft)  
 Size: 18x9.5x8 cm (7x3.7x3.1 in)  
 Weight: 272 g (0.6 lb)

## Interface ports

Intrinsically safe, configurable external signal ports designed to integrate with external alarms and electrical systems.

## IS trickle charge port

Can be used to hard-wire an IS power supply to run EXO indefinitely.

## Location technology

Multi-constellation: GPS/QZSS, Galileo, Beidou  
 Receiver type: 72-channel  
 Assisted-GNSS: Yes  
 GNSS Accuracy: 5m (16feet), CEP 50%, 24 hours static

## Power & battery

Rechargeable battery capacity: 144 Ah (LiFePO<sub>4</sub>)  
 Battery life in diffusion mode: 100 days at 20°C (68°F), LEL-IR, H<sub>2</sub>S, CO and O<sub>2</sub> configuration  
 Battery life in pump mode: 30 days at 20°C (68°F)  
 Charge time: ~12 hrs  
 Charge temp.: 0°C to 45°C (32°F to 113°F)

## A/B interface ports

Intrinsically safe, highly configurable external signal ports designed to integrate with external alarms and electrical systems.

## Four pins per interface port

Pin 1: Low side switch  
 Voc=24Vdc, Isc=3.33A, Co=0F, Lo=0H  
 Pin 2: Ground  
 Pin 3: High voltage out  
 Voc=18Vdc, Isc=268mA, Co=0.194uF, Lo=495uH  
 Pin 4: Low voltage out  
 Voc=3.2Vdc, Isc=32mA, Co=100uF, Lo=23.9uH

## Environmental

Storage temp.: -40°C to 60°C (-40°F to 140°F)  
 Operating temp.: -20°C to 50°C (-4°F to 122°F)  
 Ingress protection: Designed to meet IP65

## Approvals

RoHS, CE, RCM  
 Canada & USA: Class I Division 1 Group A,B,C,D,T3;  
 Class I Zone 0 AEx ia IIC T3; Ex ia IIC T3 Ga  
 IECEx: Ex ia IIC T3 Ga  
 ATEX: Ex ia IIC T3 Ga  
 LEL: CSA C22.2 No.152; ISA 12.13.01  
 FCC ID: W77EXO IC: 8255A-EXO  
 Contains: FCC ID: XPY1EIQ24NN, Q639603N  
 IC: 8585A-1EIQ24NN, 4629A-9603N

## Warranty

Three-year hardware warranty  
 Extended warranty available

Gas	Sensor type	Range	Resolution
Ammonia (NH <sub>3</sub> )	Electrochemical	0-100 ppm	0.1 ppm
High-range ammonia (NH <sub>3</sub> )	Electrochemical	0-500 ppm	1 ppm
Carbon monoxide (CO)	Electrochemical	0-500 ppm	1 ppm
High-range carbon monoxide (CO)	Electrochemical	0-2000 ppm	5 ppm
Hydrogen resistant carbon monoxide (CO-H)	Electrochemical	0-500 ppm	1 ppm
Carbon dioxide (CO <sub>2</sub> )	NDIR	0-50,000 ppm	50 ppm
Chlorine (Cl <sub>2</sub> )*	Electrochemical	0-20 ppm	0.1 ppm
Chlorine dioxide (ClO <sub>2</sub> )*	Electrochemical	0-2 ppm	0.01 ppm
COSH (CO & H <sub>2</sub> S)	Electrochemical	0-500 ppm CO, 0-100 ppm H <sub>2</sub> S	1 ppm CO, 0.1 ppm H <sub>2</sub> S
Hydrogen (H <sub>2</sub> ) (UK/EU only)	Electrochemical		
Hydrogen cyanide (HCN)	Electrochemical	0-30 ppm	0.1 ppm
Hydrogen sulfide (H <sub>2</sub> S)	Electrochemical	0-100 ppm	0.1 ppm
High-range hydrogen sulfide (H <sub>2</sub> S)	Electrochemical	0-500 ppm	0.5 ppm
LEL-infrared (LEL-IR)	NDIR	0-100% LEL	1% LEL
LEL-MPS	Molecular Property Spectrometer	0-100% LEL	0.1% LEL
LEL-pellistor (LEL-P)	Catalytic bead	0-100% LEL	1% LEL
Nitrogen dioxide (NO <sub>2</sub> )	Electrochemical	0-50 ppm	0.1 ppm
Oxygen (O <sub>2</sub> )	Pumped electrochemical	0-25% vol	0.1% vol
Photoionization (PID)	PID	0-4,000 ppm	Dynamic resolution**, 0.1 ppm
Sulfur dioxide (SO <sub>2</sub> )	Electrochemical	0-100 ppm	0.1 ppm