



## 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 module\*

**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	Sensor model	Range	Resolution
Ammonia (NH <sub>3</sub> )	Electrochemical	Citytech, Sensoric NH3 3E 100 SE	0-100 ppm	0.1 ppm
High-range ammonia (NH <sub>3</sub> )	Electrochemical	Sensoric NH3 E3 500 SE	0-500 ppm	1 ppm
Carbon monoxide (CO)	Electrochemical	Citytech, 4CF+ C iTiceL	0-500 ppm	1 ppm
High-range carbon monoxide (CO)	Electrochemical	Citytech 4CM	0-2000 ppm	5 ppm
Hydrogen resistant carbon monoxide (CO-H)	Electrochemical	Citytech 2CF3	0-500 ppm	1 ppm
Carbon dioxide (CO <sub>2</sub> )**	NDIR	Gas Sensing Solutions, MiniR	0-50,000 ppm	50 ppm
Chlorine (Cl <sub>2</sub> )**	Electrochemical	Citytech, Sensoric Cl2 3E 50	0-20 ppm	0.1 ppm
Chlorine dioxide (ClO <sub>2</sub> )	Electrochemical	Sensoric ClO2 3E 1 O	0-2 ppm	0.01 ppm
COSH	Electrochemical	Citytech, 4COSH Dual Gas CO/H <sub>2</sub> S Sensor	0-500 ppm CO, 0-100 ppm H <sub>2</sub> S	1 ppm CO, 0.1 ppm H <sub>2</sub> S
Hydrogen cyanide (HCN)	Electrochemical	Sensoric HCN 3E 30 F	0-30 ppm	0.1 ppm
Hydrogen sulfide (H <sub>2</sub> S)	Electrochemical	City Technology, 4HS+ Hydrogen Sulfide C iTiceL	0-100 ppm	0.1 ppm
High-range hydrogen sulfide (H <sub>2</sub> S)	Electrochemical	City Technology, 4HS+ Hydrogen Sulfide C iTiceL	0-500 ppm	0.5 ppm
LEL-infrared (LEL-IR)	NDIR	MIPEX, O2-X-X.1	0-100% LEL	1% LEL
LEL-MPS	Molecular Property Spectrometer	NevadaNano LEL-MPS	0-100% LEL	0.1% LEL
LEL-pellistor (LEL-P)	Catalytic bead	4P75C C iTiceL	0-100% LEL	1% LEL
Nitrogen dioxide (NO <sub>2</sub> )	Electrochemical	City Technology, 4ND	0-50 ppm	0.1 ppm
Oxygen (O <sub>2</sub> )	Pumped electrochemical	City Technology, 4OxLL Longlife Oxygen C iTiceL	0-25% vol	0.1% vol
Ozone (O <sub>3</sub> )**	Electrochemical	Sensoric O3 3E 1	0-1 ppm	0.01 ppm
Photoionization (PID)	PID	Ion Science, MiniPID 2	0-4,000 ppm	Dynamic resolution*, 0.1 ppm
Sulfur dioxide (SO <sub>2</sub> )	Electrochemical	City Technology, 4S Rev. 2 Sulfur Dioxide C iTiceL	0-100 ppm	0.1 ppm

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*All specifications subject to change without notice.*  
 \*Not all sensors work with the pump module. \*\*Dependant on correction factor.