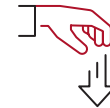


Up to 8 gas detection



GPS location technology



Drop-and-go deployment



24/7 Live safety monitoring



Up to 100 days of battery life



Dual display: Live readings and dashboard



Direct-to-cloud connectivity



Analytics reporting

# EXO 8

AREA MONITOR

The only cloud-connected portable area monitor capable of detecting up to eight gases with optional gamma radiation sensor for robust hazard protection and early threat detection. EXO delivers real-time data streaming to the cloud for unparalleled situational awareness and rapid incident response – all in one rugged, drop-and-go device with up to 100 days of battery life.

DEVICE SPECIFICATIONS	
<b>MATERIAL</b>	Rugged housing built from aluminum, plastic and rubberized bumpers
<b>WEIGHT</b>	12.25 Kg (27 lbs)
<b>DIMENSIONS</b>	385 mm x 188 mm x 220 mm (15.1" x 7.4" x 8.7")
<b>TEMPERATURE</b>	<b>Operating:</b> -20°C to 50°C (-4°F to 122°F) <b>Storage:</b> -40°C to 60°C (-40°F to 140°F)
<b>HUMIDITY</b>	15 to 90% RH Non-condensing
<b>DATA</b>	<b>Logging:</b> Every minute <b>Update interval:</b> Every 30 minutes; instantly upon high urgency events, and every 5 seconds until event cleared
<b>APPROVALS/STANDARDS</b>	RoHS, CE 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 Performance: CSA C22.2 No.152; ISA 12.13.01
<b>IP RATING</b>	Designed to meet IP66
<b>SOUND LEVELS</b>	<b>Sounder db rating:</b> 110 dB @ 30 cm (12 inches) <b>Speaker db rating:</b> 63 db @ 30 cm (12 inches)
<b>SENSORS</b>	<b>Standard:</b> 4 sensors, up to 5 gases <b>Optional gas expansion module:</b> 8 sensors, up to 8 gases
<b>WARRANTY</b>	Three-year hardware warranty, extended warranty available. Blackline complete lease option provides comprehensive warranty for full term.

CONNECTIVITY	
<b>LOCATION AWARENESS</b>	<b>Multi-constellation:</b> GPS/QZSS, Galileo, BeiDou <b>Receiver type:</b> 72-channel <b>Assisted-GNSS:</b> Yes <b>GNSS Accuracy:</b> 5 m (16 feet), CEP 50%, 24 hours static Optional Beacon for indoor location accuracy
<b>CELLULAR</b>	<b>Wireless coverage:</b> 219 countries, 381 wireless carriers <b>4G LTE bands</b> 1, 12, 13, 18, 19, 2, 20, 26, 28, 3, 38, 39, 4, 40, 41, 5, 7, 8 <b>3G UMTS bands</b> 1900, 2100, 850, 900 <b>2G GSM bands</b> 850/900/1800/1900 <b>Antenna:</b> Internal
<b>SATELLITE</b>	Optional satellite module for connecting to the Iridium satellite network <b>Radio:</b> 1621 MHz, 2 Watts <b>Antenna:</b> Internal
<b>BLUETOOTH</b>	(4.2 BR/LE)
<b>WIRELESS UPDATES</b>	Over-the-air device configurations Over-the-air firmware upgrades
<b>OPTIONAL PTT</b>	Send and receive voice messages to other G7 and EXO devices

BATTERY AND CHARGING	
<b>RECHARGEABLE BATTERY</b>	144 Ah (LiFePO4)
<b>CHARGE TIME</b>	~12 hours
<b>BATTERY LIFE</b>	<b>Battery life in diffusion mode:</b> 100 days at 20°C (68°F), LEL-MPS, H2S, CO and O2 configuration <b>Battery life in pump mode:</b> 30 days at 20°C (68°F), LEL-MPS, H2S, CO and O2 configuration

## USER INTERFACE

<b>DISPLAY</b>	Dual 3.4" diagonal, 272 by 451 pixel, 64-color liquid crystal displays (LCD)
<b>BUTTONS</b>	<b>Menu system:</b> Driven by three-button keypad <b>Power button:</b> On/off
<b>SOS LATCH</b>	Send SOS alert
<b>LANGUAGES</b>	Multi-language support: EN, FR, ES, DE, IT, NL, PT

## OPTIONAL PUMP MODULE

<b>CHANNELS</b>	4
<b>OPERATING TEMPERATURE</b>	-20°C to 50°C (-4°F to 122°F)
<b>SAMPLE LENGTH</b>	Up to 30 m (100 ft)

## INTERFACE PORTS

<b>A/B</b>	Intrinsically safe, configurable external signal ports designed to integrate with external alarms and electrical systems Four pins per interface port
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## EXO ACCESSORIES



Satellite Module



4 Gas Pump Module



Gas Expansion Module



Survey Tripod



Standoff Base



Universal Mount



Solar Power Kit



Location Beacon

For more EXO accessories visit [blacklinesafety.com/accessories](https://blacklinesafety.com/accessories).

## GAS CARTRIDGE AND SENSORS

GAS	SENSOR TYPE	RANGE	RESOLUTION
AMMONIA (NH <sub>3</sub> )	Electrochemical	0–100 ppm	0.1 ppm
CARBON DIOXIDE (CO <sub>2</sub> )	NDIR	0–50,000 ppm	50 ppm
CARBON MONOXIDE (CO)	Electrochemical	0–500 ppm	1 ppm
CHLORINE (CL <sub>2</sub> ) <sup>1</sup>	Electrochemical	0–20 ppm	0.1 ppm
CHLORINE DIOXIDE (CLO <sub>2</sub> ) <sup>1</sup>	Electrochemical	0–2 ppm	0.01 ppm
COSH (CO & H <sub>2</sub> S)	Electrochemical	0–500 ppm CO and 0–200 ppm H <sub>2</sub> S	1 ppm CO and 0.1 ppm H <sub>2</sub> S
HIGH-RANGE AMMONIA (NH <sub>3</sub> )	Electrochemical	0–500 ppm	1 ppm
HIGH-RANGE CARBON MONOXIDE (CO)	Electrochemical	0–2000 ppm	1 ppm
HIGH-RANGE HYDROGEN SULFIDE (H <sub>2</sub> S)	Electrochemical	0–500 ppm	0.5 ppm
HYDROGEN (H <sub>2</sub> ) (UK/EU ONLY)	Electrochemical	0–40,000 ppm	1% LEL (400 ppm H <sub>2</sub> )
HYDROGEN CYANIDE (HCN) <sup>1,4</sup>	Electrochemical	0–30 ppm	0.1 ppm
HYDROGEN FLUORIDE (HF) <sup>4</sup>	Electrochemical	0–10 ppm	0.1 ppm
HYDROGEN RESISTANT CARBON MONOXIDE (CO-H)	Electrochemical	0–500 ppm	1 ppm
HYDROGEN SULFIDE (H <sub>2</sub> S)	Electrochemical	0–100 ppm	0.1 ppm
LEL - INFRARED (LEL-IR)	NDIR	0–100% LEL	1% LEL
LEL- MOLECULAR PROPERTY SPECTROMETER (LEL-MPS) <sup>3</sup>	MPS	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
OZONE (O <sub>3</sub> ) <sup>4</sup>	Electrochemical	0.1 ppm	0.01 ppm
PHOTOIONIZATION (PID)	PID	0–4,000 ppm	Variable <sup>2</sup> , lowest 0.1 ppm
SULFUR DIOXIDE (SO <sub>2</sub> )	Electrochemical	0–100 ppm	0.1 ppm

<sup>1</sup> Sensor not compatible with pump module. <sup>2</sup> Dependent on correction factor. <sup>3</sup> Operating Pressure: 80 to 120 kPa (11.6 to 17.4 psi). <sup>4</sup> Compatible with gas expansion module coming soon.



**NORTH AMERICA** 1 800 486 8889 | [sales@blacklinesafety.com](mailto:sales@blacklinesafety.com)  
**EUROPE** +44 1787 222684 | [eusales@blacklinesafety.com](mailto:eusales@blacklinesafety.com)  
**REST OF WORLD** +1 403 451 0327 | [sales@blacklinesafety.com](mailto:sales@blacklinesafety.com)

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