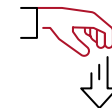


Up to 8 gas detection



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	
MATERIAL	Rugged housing built from aluminum, plastic and rubberized bumpers
WEIGHT	12.25 Kg (27 lbs)
DIMENSIONS	385 mm x 188 mm x 220 mm (15.1" x 7.4" x 8.7")
TEMPERATURE	Operating: -20°C to 50°C (-4°F to 122°F) Storage: -40°C to 60°C (-40°F to 140°F)
HUMIDITY	15 to 90% RH Non-condensing
DATA	Logging: Every minute Update interval: Every 30 minutes; instantly upon high urgency events, and every 5 seconds until event cleared
APPROVALS/STANDARDS	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
IP RATING	Designed to meet IP66
SOUND LEVELS	Sounder db rating: 110 dB @ 30 cm (12 inches) Speaker db rating: 73 db @ 30 cm (12 inches)
SENSORS	Standard: 4 sensors, up to 5 gases Optional gas expansion module: 8 sensors, up to 8 gases
WARRANTY	Three-year hardware warranty, extended warranty available. Blackline complete lease option provides comprehensive warranty for full term.

CONNECTIVITY	
LOCATION AWARENESS	Multi-constellation: GPS/QZSS, Galileo, BeiDou Receiver type: 72-channel Assisted-GNSS: Yes GNSS Accuracy: 5 m (16 feet), CEP 50%, 24 hours static Optional Beacon for indoor location accuracy
CELLULAR	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	Optional satellite module for connecting to the Iridium satellite network Radio: 1621 MHz, 2 Watts Antenna: Internal
BLUETOOTH	(4.2 BR/LE)
WIRELESS UPDATES	Over-the-air device configurations Over-the-air firmware upgrades
OPTIONAL PTT	Send and receive voice messages to other G7 and EXO devices

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

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

OPTIONAL PUMP MODULE	
CHANNELS	4
OPERATING TEMPERATURE	-20°C to 50°C (-4°F to 122°F)
SAMPLE LENGTH	Up to 30 m (100 ft)

INTERFACE PORTS	
A/B	Intrinsically safe, configurable external signal ports designed to integrate with external alarms and electrical systems Four pins per interface port

GAS CARTRIDGE AND SENSORS

GAS	SENSOR TYPE	RANGE	RESOLUTION
AMMONIA (NH ₃)	Electrochemical	0–100 ppm	0.1 ppm
CARBON DIOXIDE (CO ₂)	NDIR	0–50,000 ppm	50 ppm
CARBON MONOXIDE (CO)	Electrochemical	0–500 ppm	1 ppm
CHLORINE (CL ₂) ¹	Electrochemical	0–20 ppm	0.1 ppm
CHLORINE DIOXIDE (CLO ₂) ¹	Electrochemical	0–2 ppm	0.01 ppm
COSH (CO & H ₂ S)	Electrochemical	0–500 ppm CO and 0–100 ppm H ₂ S	1 ppm CO and 0.1 ppm H ₂ S
HIGH-RANGE AMMONIA (NH ₃)	Electrochemical	0–500 ppm	1 ppm
HIGH-RANGE CARBON MONOXIDE (CO)	Electrochemical	0–2000 ppm	5 ppm
HIGH-RANGE HYDROGEN SULFIDE (H ₂ S)	Electrochemical	0–500 ppm	0.5 ppm
HYDROGEN (H ₂) (UK/EU ONLY)	Electrochemical	0–40,000 ppm	1% LEL (400 ppm H ₂)
HYDROGEN CYANIDE (HCN) ^{1,4}	Electrochemical	0–30 ppm	0.1 ppm
HYDROGEN FLUORIDE (HF) ⁴	Electrochemical	0–100 ppm	0.1 ppm
HYDROGEN RESISTANT CARBON MONOXIDE (CO-H)	Electrochemical	0–500 ppm	1 ppm
HYDROGEN SULFIDE (H ₂ S)	Electrochemical	0–100 ppm	0.1 ppm
LEL - INFRARED (LEL-IR)	NDIR	0–100% LEL	1% LEL
LEL- MOLECULAR PROPERTY SPECTROMETER (LEL-MPS) ³	MPS	0–100% LEL	0.1% LEL
NITROGEN DIOXIDE (NO ₂)	Electrochemical	0–50 ppm	0.1 ppm
OXYGEN (O ₂)	Pumped electrochemical	0–25% vol	0.1% vol
OZONE (O ₃) ⁴	Electrochemical	0.1 ppm	0.1 ppm
PHOTOIONIZATION (PID)	PID	0–4,000 ppm	Dynamic resolution ² , 0.1 ppm
SULFUR DIOXIDE (SO ₂)	Electrochemical	0–100 ppm	0.1 ppm

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

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.