



Detect up to 5 gases
(choose from 20+ sensors)

Dual-band GPS/GNSS
location technology

Swappable cartridges for single-gas,
multi-gas, multi-gas pump, and lone worker

24/7 live safety
monitoring

Two-way talking
and messaging

TagAssign™
tap-and-go deployment

Real-time notifications:
Fall, no-motion, missed check-in,
proximity-based, and emergency SOS alerts

Automated
reporting

G8

G8 is the most connected safety wearable ever made. With one device you can detect gas, protect lone workers, and give teams instant ways to call for help or collaborate. G8 shares data in real time so you can see what's happening, respond faster when something goes wrong, and spot risks before they become roadblocks.

DEVICE SPECIFICATIONS	
MATERIAL	Polycarbonate over molded with a static dissipative thermoplastic elastomer (TPE)
SIZE & WEIGHT	<p>G8 with Standard Cartridge Size: 122 mm x 65 mm x 42 mm (4.8" x 2.56" x 1.65") Weight: 207 g (7.30 oz)</p> <p>G8 with Single-gas Cartridge Size: 127 mm x 65 mm x 42 mm (5.0" x 2.56" x 1.65") Weight: 212 g (7.48 oz)</p> <p>G8 with Multi-gas Diffusion Cartridge Size: 149 mm x 66 mm x 42 mm (5.87" x 2.6" x 1.65") Weight: 247 g (8.71 oz)</p> <p>G8 with Multi-gas Pumped Cartridge Size: 149 mm x 66 mm x 42 mm (5.87" x 2.6" x 1.65") Weight: 265 g (9.35 oz)</p>
TEMPERATURE	<p>Storage temperature: -30°C to 60°C (-22°F to 140°F)</p> <p>Operating temperature: -20°C to 55°C (-4°F to 131°F)</p> <p>Charging temperature: 0°C to 40°C (32°F to 104°F)</p>
HUMIDITY	15-90% RH Non-condensing
DATA	<p>The default location schedule on G8 is every five minutes. Location and sensor readings are recorded every 10 seconds if either of the following is true:</p> <ul style="list-style-type: none"> • "10-second locations and gas data" is enabled • Any sensor is reading above the extended blanking range
APPROVALS/STANDARDS	<p>Canada and USA: Class I Division 1 Group A,B,C,D,T4; Class I Zone 0 AEx ia IIC T4; Ex ia IIC T4 Ga</p> <p>LEL Performance: CSA C22.2 No.152; ISA 12.13.01; 60079-29-1</p> <p>CE/RoHS</p> <p>IECEx: Ex ia IIC T4 Ga</p> <p>ATEX: Ex ia IIC T4 Ga</p>
IP RATING	IP67 certified
SOUND LEVELS	Speaker sound pressure level: ~95 dB @ 30 cm (~95 dB @ 11.8")
SENSORS	Cartridge selection supports up to 4 sensors, and up to 5 gases
WARRANTY	<p>Purchase: 2 years on base, cartridge, and sensors, with the option to extend to up to 5 years</p> <p>Blend: 2 years on base; cartridge and sensors for the entire term</p> <p>Lease: Entire lease term</p>

CONNECTIVITY	
LOCATION AWARENESS	Multi-constellation Support (GPS, Galileo, GLONASS, QZSS, BeiDou) Dual-band (L1 and L5) GNSS receiver Assisted GNSS: Yes
CELLULAR	<p>EU/AZ Variant:</p> <p>4G LTE bands: 12,13,18,19,20,26,5,8,28,2,3,1,4,7,38,39,40,41</p> <p>3G UMTS bands: 5,8,1,2</p> <p>2G GSM bands: 5,8,3,2</p> <p>NA Variant:</p> <p>4G LTE bands: 71,12,13,14,5,2,66,4</p>
BLUETOOTH	Complies with Bluetooth® Core Specification version 4.2 including BR/EDR/Bluetooth® LE
NFC	Tag Reading 13.56 MHz
WIRELESS UPDATES	Over-the-air device configurations Over-the-air firmware upgrades

BATTERY AND CHARGING	
RECHARGEABLE BATTERY	Li-ion battery: 1350 mAh
CHARGE TIME	4 hours
BATTERY LIFE	Battery life in diffusion mode: 18 hours at 20°C (68°F) with LEL-(IR or MPS), H ₂ S, CO, and O ₂ cartridge under normal connectivity conditions

DISPLAY AND CONTROLS	
DISPLAY	2.13", 240 x 320 pixel graphical, high contrast, 64-bit color liquid crystal display with front lighting
BUTTONS	<p>Menu system: Driven by three-button keypad and side up/down keys</p> <p>Push-to-Talk (PTT): For two-way radio communication</p> <p>Flashlight: For fast flashlight access</p>
FLASHLIGHT	5000K CCT, 35 lumens
SOS LATCH	Send emergency SOS alert
LANGUAGES	Multi-language support: EN, FR, ES, DE, IT, NL, PT

OPTIONAL FEATURES AND COMMUNICATION

PTT	Send and receive voice communications with other G8 devices
REMOTE MIC	Two-way microphone accessory

BLACKLINE PLATFORM

BLACKLINE LIVE	<ul style="list-style-type: none"> Cloud-hosted safety monitoring, device configuration. SOC2 Type 1 compliant Real-time alert management (visual and audible), including alert type, status, map location, and event history with notes Over-the-air device configuration and profile management <p>i Learn more: blacklinesafety.com/live-datasheet</p>
BLACKLINE ANALYTICS	<ul style="list-style-type: none"> Direct access to centralized device data (events, alerts, usage, exposure) Historical event and alert logs for audit and compliance review Bump test and calibration records with downloadable certificates

G8 ACCESSORIES



Dock Remote Mic Location Beacon Multi-unit Charger

i Learn more: blacklinesafety.com/accessories

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 0–200 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	1 ppm
HIGH-RANGE HYDROGEN SULFIDE (H ₂ S)	Electrochemical	0–500 ppm	0.5 ppm
HYDROGEN (H ₂) (OUTSIDE NORTH AMERICA)	Electrochemical	0–40,000 ppm	1% LEL (400 ppm H ₂)
HYDROGEN CYANIDE (HCN)	Electrochemical	0–30 ppm	0.1 ppm
HYDROGEN FLUORIDE (HF) ¹	Electrochemical	0–10 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	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) ¹	Electrochemical	0.1 ppm	0.1 ppm
PHOTOIONIZATION (PID)	PID	0–4,000 ppm	Variable ² , lowest 0.1 ppm
SULFUR DIOXIDE (SO ₂)	Electrochemical	0–100 ppm	0.1 ppm

³ Operating pressure: 80 to 120 kPa (11.6 psi to 17.4 psi).

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