**Simply Unified**

**blacklinesafety**

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** | **G8 with Standard Cartridge**<br>Size: 122 mm x 65 mm x 42 mm (4.8" x 2.56" x 1.65")<br>Weight: 207 g (7.30 oz)<br>**G8 with Single-gas Cartridge**<br>Size: 127 mm x 65 mm x 42 mm (5.0" x 2.56" x 1.65")<br>Weight: 212 g (7.48 oz)<br>**G8 with Multi-gas Diffusion Cartridge**<br>Size: 149 mm x 66 mm x 42 mm (5.87" x 2.6" x 1.65")<br>Weight: 247 g (8.71 oz)<br>**G8 with Multi-gas Pumped Cartridge**<br>Size: 149 mm x 66 mm x 42 mm (5.87" x 2.6" x 1.65")<br>Weight: 265 g (9.35 oz) |
| **TEMPERATURE** | **Storage temperature:** -30°C to 60°C (-22°F to 140°F)<br>**Operating temperature:** -20°C to 55°C (-4°F to 131°F)<br>**Charging temperature:** 0°C to 40°C (32°F to 104°F) |
| **HUMIDITY** | 15-90% RH Non-condensing |
| **DATA** | 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:<br>• "10-second locations and gas data" is enabled<br>• Any sensor is reading above the extended blanking range |
| **APPROVALS/ STANDARDS** | **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<br>**LEL Performance:** CSA C22.2 No.152; ISA 12.13.01; 60079-29-1<br>CE/RoHS<br>**IECEx:** Ex ia IIC T4 Ga<br>**ATEX:** Ex ia IIC T4 Ga |
| **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** | **Purchase**: 2 years on base, cartridge, and sensors, with the option to extend to up to 5 years<br>**Blend:** 2 years on base; cartridge and sensors for the entire term<br>**Lease:** Entire lease term |

## CONNECTIVITY

| | |
|---|---|
| **LOCATION AWARENESS** | Multi-constellation Support (GPS, Galileo, GLONASS, QZSS, BeiDou)<br>Dual-band (L1 and L5) GNSS receiver<br>Assisted GNSS: Yes |
| **CELLULAR** | **EU/AZ Variant:**<br>4G LTE bands: 12,13,18,19,20,26,5,8,28,2,3,1,4,7,38,39,40,41<br>3G UMTS bands: 5,8,1,2<br>2G GSM bands: 5,8,3,2<br>**NA Variant:**<br>4G LTE bands: 71,12,13,14,5,2,66,4 |
| **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<br>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), $H_2S$, 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** | **Menu system:** Driven by three-button keypad and side up/down keys<br>**Push-to-Talk (PTT):** For two-way radio communication<br>**Flashlight:** For fast flashlight access |
| **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 | • Cloud-hosted safety monitoring, device configuration. SOC2 Type 1 compliant<br>• Real-time alert management (visual and audible), including alert type, status, map location, and event history with notes<br>• Over-the-air device configuration and profile management<br>ⓘ Learn more: blacklinesafety.com/live-datasheet |
|---|---|
| BLACKLINE ANALYTICS | • Direct access to centralized device data (events, alerts, usage, exposure)<br>• Historical event and alert logs for audit and compliance review<br>• Bump test and calibration records with downloadable certificates |

## G8 ACCESSORIES



Dock  Remote Mic  Location Beacon  Multi-unit Charger

ⓘ 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 & $H_2S$) | Electrochemical | 0–500 ppm CO and 0–200 ppm $H_2S$ | 1 ppm CO and 0.1 ppm $H_2S$ |
| 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 ($H_2S$) | 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 ($H_2S$) | 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 |

[1] This sensor is not compatible with the pump cartridge. [2] Dependent on correction factor. [3] Operating pressure: 80 to 120 kPa (11.6 psi to 17.4 psi).

ⓘ Learn more: blacklinesafety.com/sensors

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