



G7^x

**ALARMS DON'T SAVE PEOPLE.
PEOPLE SAVE PEOPLE.**

Blackline Safety's G7x uses 3G cellular and satellite networks to connect your team to real people. G7x confidently accounts for everyone's wellbeing and whereabouts in real-time to equip live monitoring personnel when someone needs a hand, in even the most remote locations.

The G7x system includes the G7x user-worn device and G7 Bridge portable satellite and cellular base station. Leveraging 3G and Iridium satellite networks, remote teams are wirelessly monitored by real people. Connectivity seamlessly transitions to satellite when cellular becomes unavailable, for true last-mile monitoring. G7x communicates with G7 Bridge through an industrial-quality 900 MHz radio link from up to 2 km away. G7 Bridge connects with the Blackline Safety Network and monitoring teams using available 3G or satellite connections.

G7x automatically watches over workers and calls for help even when the employee can't. All safety incidents are communicated to 24/7 monitoring personnel who can mobilize responders to an employee's exact location or trigger an evacuation in real-time. Constant connectivity provides critical insights and situational awareness for optimized emergency responses.

G7x delivers an exclusive, customizable and modular design. Gas detection is tailored to work environments with a selection of cartridges and sensors. Everything is completely configurable to meet the needs of every industry, application and scenario. Bump test and calibration data is communicated automatically to Blackline's monitoring portal for real-time compliance visibility and reporting. Wireless connectivity ensures that each G7x is remotely configurable and firmware updates are automatic. From onset of an incident through to resolution, all activities are time-stamped for future reporting.

Features



Fall detection



No-motion detection



Messaging



Gas alarms



SOS alert



Check-in



GPS location



Indoor location compatible



Satellite Connectivity

DETAILED SPECIFICATION

Standard G7 Safety Alert Features

All safety alerts are transmitted immediately to the Blackline Safety Network

Fall detection and No motion detection: Tri-axis accelerometer, tri-axis gyro, software processing, configurable sensitivity, configurable time window (1-30 mins, or off) for no motion detection

Emergency latch: Pull latch to trigger remote alert

Silent emergency: Press and hold latch to trigger remote alert

Low-battery: configurable threshold

Worker check-in: Configurable timer (5–180 min, or off), automatic check-in when driving

Additional Safety Features Available with Gas Cartridges

All gas alerts are transmitted immediately to the Blackline Safety Network

Time-weighted average (TWA)

Short-term exposure limit (STEL)

High gas alert

Low gas alert

Bump test and calibration notification

Bump test and calibration failure alert

Size & Weight

G7 with Standard Cartridge

Size: 64 mm x 124 mm x 27 mm (2.52" x 4.88" x 1.06")

Weight: 162 g (5.7 oz)

G7 with Single-gas Cartridge

Size: 64 mm x 128 mm x 27 mm (2.52" x 5.04" x 1.06")

Weight: 167 g (5.9 oz)

G7 with Quad-gas Cartridge

Size: 66 mm x 150 mm x 27 mm (2.52" x 5.91" x 1.06")

Weight: 192 g (6.8 oz)

Single-gas and Quad-gas Sensor Options

H₂S, LEL, CO, O₂, CO₂, NH₃

H₂S (Hydrogen Sulfide)

Sensor type: Electrochemical

Lowest detection limit: 0.5 ppm

Upper detection limit: 50 ppm

Resolution: 0.1 ppm

LEL combustible

Sensor type: Infrared

Lowest detection limit: ±4 %LEL

Upper detection limit: 100 %LEL

Resolution: 1 %LEL

CO (Carbon Monoxide)

Sensor type: Electrochemical

Lowest detection limit: 1 ppm

Upper detection limit: 500 ppm

Resolution: 1 ppm

O₂ (Oxygen)

Sensor type: Pumped electrochemical

Lowest detection limit: 0.1 %vol

Upper detection limit: 25.0 %vol

Resolution: 0.1 %vol

CO₂ (Carbon Dioxide)

Sensor type: Infrared

Lowest detection limit: 50 ppm

Upper detection limit: 50000 ppm

Resolution: 50 ppm

NH₃ (Ammonia)

Sensor type: Electrochemical

Lowest detection limit: 0.5 ppm

Upper detection limit: 100.0 ppm

Resolution: 0.1 ppm

User Interface

168 by 144 pixel graphical, high contrast, liquid crystal display with front lighting, menu system driven by a three-button keypad, power button (on/off), check-in button (check-in/silent emergency), emergency latch (send emergency alert)

User Notification

Green SureSafe® light: Blinking (powered), continuous (connected)

Yellow top and front lights: Personal pending alarm and personal warning alarm

Red top and front lights: Remote alert communicated

Blue LiveResponse™ top and front lights: Monitoring team confirmation that alert has been acknowledged

Personal alarm indicators: speaker, LEDs and vibration motor

G7x Wireless Radio

Works with G7 bridge satellite base station

Radio: 902.0–928.0 MHz, 1 Watt

Antenna: Internal

Radio link range: 2 km (1.25 mi) real-world

Wireless Updates

Device configuration changes: Yes,

Device firmware upgrade over-the-air (FOTA): Yes

Location Technology

GPS Radio: 48-channel high sensitivity

Assisted-GPS: Yes

GPS Accuracy: ~5 m (16 ft) Outdoors

Indoor location technology: Blackline Safety location beacons

Location update frequency: G7c 10 sec, G7x 15 min

Power & Battery

Rechargeable Li-ion battery: 1250 mAh Li-ion

Battery Life: 18 hours continuous operation at 20°C (68°F)

Charge time: 4 hours

Environmental

Storage temperature: -30°C to 75°C (-22°F to 167°F)

Operating temperature: -20°C to 55°C (-4°F to 131°F)

Charging temperature: 0°C to 45°C (32°F to 113°F)

Ingress Protection: IP67*

Approvals*

SAR, RoHS, RCM

FCC ID: W77G7X | IC ID: 8255A-G7X

Intrinsically safe: Class I Division 1 Groups A, B, C, D

T4; Class I Zone 0 AEx ia IIC T4 Ga; Ex ia IIC T4 Ga; IECEx

Ex ib IIC T4 Gb

Warranty

G7: two years

Cartridges: Lifetime

G7 complete plan: three years

Blackline Live Web Application

Cloud-hosted safety monitoring web application is highly customizable for every customer requirement. Includes live map, employee address book, user roles, alert management, device configurations, alert setups and reporting.

All specifications subject to change without notice.

**All approvals pending*

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