



# G7x

## ALARMS DON'T SAVE PEOPLE. PEOPLE SAVE PEOPLE.

The Blackline Safety G7x wirelessly connects your team to real people using Iridium satellites. We put the tools in your hands to watch over your own team, or you can leave the monitoring to our Safety Operations Center.

Wireless connectivity ensures that each G7x is remotely configurable and firmware updates are automatic. G7x supports three cartridge types that provide a choice of gas detection options. Everything is completely customizable to meet the needs of every industry, application and scenario.

Employees who face an incident are under incredible pressure. Even if they can't respond to a check-in or text message, G7x brings comfort when its blue LiveResponse™ light turns on—the alert was received and help is on the way.

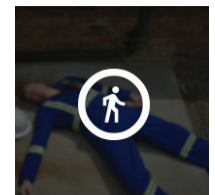
Each alert is managed according to your custom and documented emergency response protocol. From incident through to resolution, all activities are time-stamped for future reporting, including notes that are used to document the response.

For situations where a threat needs to be communicated broadly to your team, monitoring personnel can mass-notify your choice of personnel at one or more sites. Confidently account for everyone's wellbeing and whereabouts in real-time, and be equipped to act when someone needs a hand.

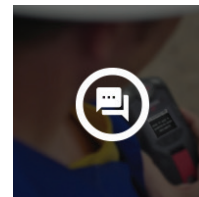
### Features



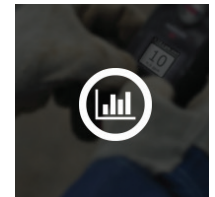
Fall detection



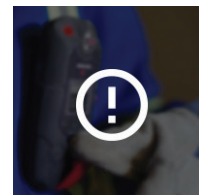
No-motion detection



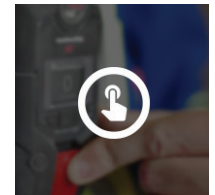
Messaging



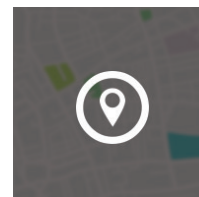
Gas alarms



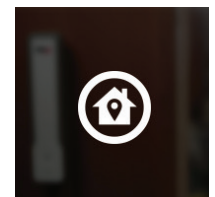
SOS alert



Check-in



GPS location



Indoor location compatible

# 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

H<sub>2</sub>S, LEL, CO, O<sub>2</sub>, CO<sub>2</sub>, NH<sub>3</sub>

**H<sub>2</sub>S (Hydrogen Sulfide)**

**Sensor type:** Electrochemical

**Lowest detection limit:** 0.5 ppm

**Upper detection limit:** 50 ppm

**Resolution:** 0.1 ppm

**LEL combustible**

**Sensor type:** MEMS pellistor

**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

**O<sub>2</sub> (Oxygen)**

**Sensor type:** Pumped electrochemical

**Lowest detection limit:** 0.1 %vol

**Upper detection limit:** 25.0 %vol

**Resolution:** 0.1 %vol

**CO<sub>2</sub> (Carbon Dioxide)**

**Sensor type:** Infrared

**Lowest detection limit:** 50 ppm

**Upper detection limit:** 50000 ppm

**Resolution:** 50 ppm

**NH<sub>3</sub> (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:** 20 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:** IP65\*

## Approvals\*

**North America:** FCC Part 15 Subpart B

Class I, Division 1, Groups A, B, C and D Ex ia IIC T4 Ga

Class II, Division 1, Groups E, F and G Ex ia III T4 Da

**Europe:** CE, Ex ia IIC T4 GA, Ex ia III T4 Da

## Warranty

**G7:** two years

**Cartridges:** Lifetime

**G7 complete plan:** three years

## Blackline Live Web Application

Cloud-hosted web application, hierarchical account structure meets need of any organization, User roles (read only, alert management, supervisor and admin users), device configuration profiles, alert management profiles, employee address book, live location mapping, custom floor and site plans, reporting includes complete alert management details, device use compliance, calibrations and bump testing

*All specifications subject to change without notice.*

*\*All approvals pending*

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