



# 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



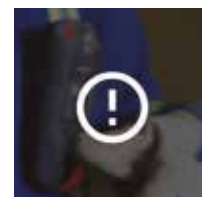
No-motion detection



Messaging



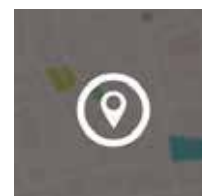
Gas alarms



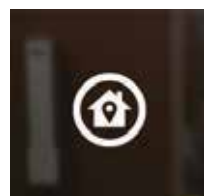
SOS alert



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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