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.
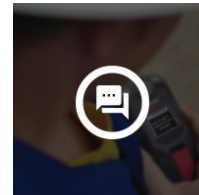
Features

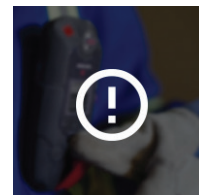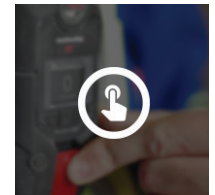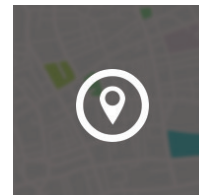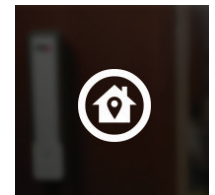|	
Fall detection	No-motion detection
Messaging	Gas alarms
SOS alert	Check-in
GPS location	Indoor location compatible

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_2S, LEL, CO, O_2, CO_2, NH_3

H_2S (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_2 (Oxygen)
Sensor type: Pumped electrochemical
Lowest detection limit: 0.1 %vol
Upper detection limit: 25.0 %vol
Resolution: 0.1 %vol

CO_2 (Carbon Dioxide)
Sensor type: Infrared
Lowest detection limit: 50 ppm
Upper detection limit: 50000 ppm
Resolution: 50 ppm

NH_3 (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, Division1, 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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