Alarms don't save people. People save people.

The Blackline Safety G7c wirelessly connects your team to **real people**. We put the tools in your hands to watch over your own team, or you can leave the monitoring to our Alarm Receiving Centre partners.

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.

Employees who face an incident are under incredible pressure. Even if they can't respond to a two-way voice call or text message, G7c **brings comfort** when its blue LiveResponse™ light turns on—the alert was received and help is on the way.

For situations where a threat needs to be communicated broadly to your team, the 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.

Wireless connectivity ensures that each G7c is remotely configurable and firmware updates are automatic. G7c supports three cartridge types that provide a choice of gas detection options. Everything about G7c is completely customizable to meet the needs of every industry, application and scenario.

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PRELIMINARY

Meet the family

- G7c Standard is ideal to monitor all pesonnel, lone workers and actively manage site evacuations. Includes always-connected 2G/3G wireless, GPS and indoor location technology, automatic incident detection, manual safety triggers plus voice and two-way text message communications.

- G7c Single-gas and G7c Quad-gas devices are capable of supporting your choice of LEL, O_2, H_2S, CO, NH_3 or CO_2 gas sensors.

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Safety Alert Features

Fall detection and No motion detection: Tri-axis accelerometer and gyros, configurable sensitivity, configurable time window (1-30 mins)
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

Gas-detection (Single-gas and Quad-gas)

Time-weighted average (TWA) limit alert, short-term exposure limit (STEL) limit alert, 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, CO_2, NH_3, O_2 with automatic zeroing

H_2S (Hydrogen Sulphide)
Sensor type: Electrochemical
Lowest detection limit: 0.5 ppm
Upper detection limit: 50 ppm
Resolution: 0.1 ppm

LEL combustible
Sensor type: MEMS pellistor or Infrared (hydrogen, acetylene)
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: 200 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

User Interface

168 by 144 pixel graphical 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 front and side lights: Personal pending alarm and personal warning alarm
Red front and side lights: Remote alert
Blue LiveResponse™ front and side lights: Monitoring team confirmation that alert has been acknowledged
Personal alarm Indicators: speaker, LEDs and vibration motor
Speaker sound pressure level: ~90 dB @ 10 cm (~90 dB @3.94")
Voice calling: Speakerphone and phone modes (G7c model only)

G7c Wireless Radio

Wireless coverage: ~200 countries
North America: 2G/3G radio, GSM 850 MHz, PCS 1900 MHz, 3G UMTS bands 2, 5 and 6
International: 2G/3G radio, E-GSM 900 MHz, DSC 1800 MHz, 3G UMTS bands 1 and 8
Antenna: Internal dual-band

Communications

Bidirectional data communication, always-connected wireless communication, device configuration changes over-the-air, firmware upgrade over-the-air (FOTA)

Location Technology

GPS Radio: 48-channel high sensitivity
Assisted-GPS: Yes
GPS Accuracy: ~5 m (16 ft) Outdoors
Indoor location technology compatible: Yes, Blackline Safety location beacon
G7c reporting interval: 10 seconds via GPS, real-time via location beacons

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℃ to 75℃ (-22°F to 167°F)
Operating temperature: -20℃ to 55℃ (-4°F to 131°F)
Charging temperature: 0℃ to 45℃ (32°F to 113°F)
Ingress Protection: Designed to meet IP65

Approvals

North America: Designed for 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: Designed for CE, Ex ia IIC T4 GA, Ex ia III T4 Da

Device Requirements

Blackline Safety service plan, 2G/3G wireless coverage (G7c model), GPS signal coverage required for GPS locating, Blackline Safety location beacon signals for precise indoor positioning

Warranty

Two-year limited factory warranty, G7 Complete lease program extends warranty to three years with cartridge replacements included

Service Plans

Silver (for self-monitoring) and Gold (24/7/365 live monitoring included), with and without voice calling (G7c model only), gas detection single gas or quad gas

Blackline Live Web Application

Web application, hierarchical account structure meets need of any organization, User roles (device, 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

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