

G7c

blacklinesafety

Portable Gas Detector and Lone Worker device



**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 in-house 24/7 Safety Operations Centre.

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 is completely customizable to meet the needs of very industry, application and scenario.

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.

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. Confidentially 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



Speaker phone



SOS alert



Check-in



GPS location



Indoor location compatible



Gas alarms

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: 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

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
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

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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