



# G7c

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

Blackline Safety's G7c uses 3G cellular networks to wirelessly connect your team to real people. Should a gas leak, injury or health event occur, G7c confidently accounts for everyone's wellbeing and whereabouts in real-time.

G7c automatically watches over workers and calls for help, even if they can't. All safety incidents are communicated to live 24/7 monitoring personnel who can mobilize responders to an employee's exact location or trigger an evacuation in real-time. With a two-way speakerphone, monitoring personnel can communicate with the worker directly, providing critical insights of a situation or emergency event.

With a modular design, G7c delivers exclusive customisability. Gas detection is tailored to work environments with a selection of cartridges and sensors — everything is completely configurable. Bump test and calibration data is communicated automatically to Blackline's monitoring portal, Blackline Live, for real-time compliance visibility and reporting. Wireless connectivity ensures that each G7c is remotely configurable, and that firmware updates are automatic.

In Blackline Live, the real-time safety and alert status of every worker in the field is available at a glance. Every alert is automatically communicated to the portal, and managed according to custom documented emergency response protocols. From incident through to resolution, all activities are time-stamped for future reporting, including notes that are used to document the response.

### 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

**SOS latch:** Pull latch to trigger red alert

**Silent SOS:** Press and hold latch to trigger red 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/CO-H, O<sub>2</sub>, NH<sub>3</sub>, SO<sub>2</sub>

Coming soon : Cl<sub>2</sub>, COSH, CO<sub>2</sub>, LEL-Pellistor, PID

## 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 SOS), SOS latch (send SOS alert)

## User Notification

**Green SureSafe® light:** Blinking (powered), continuous (connected)

**Yellow top and front lights:** Yellow pending alarm and yellow warning alarm

**Red top and front lights:** Red alert communicated

**Blue LiveResponse™ top and front lights:**

Confirmation that alert has been acknowledged

**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 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:** 18 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:** IP67



## Approvals

SAR, RoHS, CE, RCM

**FCC ID:** XPY1CGM5NNN | **IC ID:** 8595A-1CGM5NNN

**Canada and USA:** Class I Division 1 Gr A,B,C,D T4; Class I Zone 0 AEx ia IIC T4; Ex ia IIC T4 Ga 

**IECEx:** Ex ia IIC T4 Ga

**ATEX:** Ex ia IIC T4 Ga   II 1 G

**LEL-NDIR:** -20°C to 45°C; CSA C22.2 No.152; ISA 12.13.01

**LEL-Pellistor:** Ex ia IIB T4 Ga; Ex ib IIC T4 Gb

## Pending Approvals

**LEL-Pellistor:** Ex ia IIC T4 Ga; CSA C22.2 No. 152; ISA 12.13.01

## Warranty

**G7:** Two years

**Cartridges:** Lifetime

**G7 complete plan:** Three years

## Blackline Live Web Application

Cloud-hosted safety monitoring web application is highly customizable for every customer requirement. Includes live map, employee address book, user roles, alert management, device configurations, alert setups and reporting.

All specifications subject to change without notice.  
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