



# G7<sup>c</sup>

**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 to equip live monitoring personnel when someone needs a hand.

G7c automatically watches over workers and calls for help, even when the employee can't. All safety incidents are communicated to 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. Constant connectivity and incident alerting provide critical insights and situational awareness for optimized emergency responses.

G7c delivers an exclusive customizable modular design. Gas detection is tailored to work environments with a selection of cartridges and sensors. Choose from a Standard, Single-gas or Quad-gas Cartridge and a range of gas sensors. Everything is completely customizable to meet the needs of every industry, application and scenario. Bump tests and calibration data is communicated automatically to Blackline's monitoring portal for real-time compliance visibility and reporting.

Wireless connectivity ensures that each G7c is remotely configurable and firmware updates are automatic. 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.

## 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

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

**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

SAR, RoHS, CE, RCM

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

**Intrinsically safe:** Class I, Division 1, Groups A, B, C, D T4; Class I, Zone 0, AEx ia IIC T4 Ga; Ex ia IIC T4 Ga

## 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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