



Features



Fall detection



No-motion detection



Messaging



Speaker phone



SOS alert



Check-in



GPS location



Indoor location compatible



Gas alarms

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 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 customisable 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 customisable 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.

DETAILED SPECIFICATION

Standard G7 safety features

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

Silent emergency: Press and hold latch to trigger

Low-battery: configurable threshold

Worker check-in: Configurable timer (5-180 min, or off), automatic check-in when driving

Additional gas cartridge features

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 (2.5" x 4.9" x 1.1")

Weight: 162 g (5.7 oz)

G7 with Single-gas Cartridge

Size: 64 mm x 128 mm x 27 mm (2.5" x 5.0" x 1.1")

Weight: 167 g (5.9 oz)

G7 with Quad-gas Cartridge

Size: 66 mm x 150 mm x 27 mm (2.5" x 5.9" x 1.1")

Weight: 192 g (6.8 oz)

Gas Sensor options

H₂S (hydrogen sulphide)

Sensor type: Electrochemical

Range: 0-100 ppm

Resolution: 0.1 ppm

LEL combustible

Sensor type: NDIR and pellistor options

Range: 0-100% LEL

Resolution: 1% LEL

CO (carbon monoxide)

Sensor type: Electrochemical, hydrogen resistant option available

Range: 0-500 ppm

Resolution: 1 ppm

O₂ (oxygen, lead-free)

Sensor type: Long-life pumped electrochemical

Range: 0-25% vol

Resolution: 0.1 %vol

NH₃ (ammonia)

Sensor type: Electrochemical

Range: 0-100 ppm

Resolution: 0.1 ppm

SO₂ (sulphur dioxide)

Sensor type: Electrochemical

Range: 0-100 ppm

Resolution: 0.1 ppm

Cl₂ (chlorine)

Sensor type: Electrochemical

Range: 0-20 ppm

Resolution: 0.1 ppm

COSH (CO + H₂S) — coming soon

Sensor type: Electrochemical

Range: 0-500 CO, 0-100 ppm H₂S

Resolution: 1 ppm CO, 0.1 ppm H₂S

CO₂ (carbon dioxide)

Sensor type: NDIR

Range: 0-50,000 ppm

Resolution: 50 ppm

PID (photoionization detector)

Sensor type: PID

Range: 0-6,000 ppm

Resolution: 0.1 ppm at 0 to 100 ppm, 2 ppm at 100 to 6,000 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)

Multi-language support: Yes, EN, FR, ES, NL, DE, IT

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 wireless radio

Wireless coverage: 100 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 use at 20° C (68° F)

Charge time: 4 hours

Environmental

Storage temp.: -30°C to 75°C (-22°F to 167°F)

Operating temp.: -20°C to 55°C (-4°F to 131°F)

Charging temp.: 0°C to 45°C (32°F to 113°F)

Ingress Protection: IP67

Approvals



SAR, RoHS, CE, RCM

FCC ID: XPY1CGM5N9N | **IC ID:** 8595A-1CGM5N9N

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 customisable 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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