



G7^x + G7 BRIDGE

ALARMS DON'T SAVE PEOPLE. PEOPLE SAVE PEOPLE.

Blackline Safety's G7x leverages 3G cellular and satellite networks to connect your team to real people — when someone needs a hand, G7x relays the worker's exact position and safety status to live monitoring personnel, from even the most remote locations.

G7x confidently accounts for everyone's wellbeing and whereabouts in real-time to equip live monitoring teams with valuable insights and calls for help, even when the employee can't. Constant connectivity delivers critical insights and situational awareness for optimized emergency responses.

With a modular design, G7x 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 Live, Blackline's safety monitoring portal, for real-time compliance visibility and reporting. Wireless connectivity ensures that updates are automatic. Firmware and functionality updates are completed wirelessly, over-the-air. Devices never need to be pulled from the field for costly manual updates.

G7 Bridge The G7x system includes the G7x user-worn device and G7 Bridge portable satellite and cellular base station. G7 Bridge links workers in the field to the Blackline Safety Network — connectivity seamlessly transitions to satellite when cellular becomes unavailable, providing true last-mile monitoring. G7x communicates with G7 Bridge through an industrial-quality 900 MHz radio link from up to 2 km away. G7 Bridge can mass-notify employees of the need to evacuate and connect workers to monitoring personnel via two-way messaging. G7 Bridge is self-powered and portable, allowing you to quickly move it from one vehicle to another. It has your teams' back at all times, no matter their location.

Features



Fall detection



No-motion detection



Messaging



Gas alarms



SOS alert



Check-in



GPS location



Indoor location compatible



Dual mode communications



Portable

DETAILED SPECIFICATION

G7x

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

H₂, LEL, CO/CO-H, O₂, NH₃, SO₂

Coming soon : Cl₂, COSH, CO₂, 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 emergency 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

G7x Wireless Radio

Works with G7 bridge satellite base station

Radio: 902.0-928.0 MHz, 1 Watt

Antenna: Internal

Radio link range: 2 km (1.25 mi) real-world

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: 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

Warranty

G7: two years

Cartridges: Lifetime

G7 complete plan: three years

Wireless Updates

Device configuration changes: Yes,

Device firmware upgrade over-the-air (FOTA): Yes

Approvals*

SAR, RoHS, RCM

FCC ID: W77G7X | IC ID: 8255A-G7X

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 ib IIC T4 Gb

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

All specifications subject to change without notice.

G7 Bridge

Size & Weight

Size: 73 mm x 107 mm x 141 mm (2.87" x 4.21" x 5.55")

Measurements do not include mount

Weight: 540 g (19.04 oz)

Wireless Communication

Radio: UMTS 800/850/900/1900/2100; Quad-band GSM/GPRS 850, 900, 1800, 1900; Iridium Satellite (1621 MHz); ISM band radio (915 MHz)

900 MHz Radio: Americas: 902 - 928 MHz

Australian/New Zealand: 916 - 927 MHz, 1 Watt

Antenna: Internal

Power & Battery

Rechargeable Li-ion battery: 6800 mAh capacity

Battery Life: 50 hours @ 20°C (68°F); 44 hours

@ -20°C (-4°F); 14 hours @ -40°C (-40°F); It is

recommended that the hard wire kit is used anytime below -20°C

Charging connector: Micro USB

Environmental

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

Operating temperature: -40°C to 55°C (-40°F to

131°F) **Charging temperature:** 0°C to 45°C (32°F to

113°F) **Ingress Protection:** Designed to meet IP65

Regulatory Compliance

FCC, IC, RCM, RoHS

Contains: FCCID: XPYICGM5NNN, Q639603,

KQNMLINK900, IC: 8595A-ICGM5NNN, 4629A-9603,

2361A-MLINK900

900 MHz Radio Link Range

General use: up to 2 km

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