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Features

Fall detection	No-motion detection
Messaging	Gas alarms
SOS alert	Check-in
GPS location	Indoor location compatible
Dual mode communications	Portable

G7ˣ + 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 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.

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Alert. Locate. Respond.

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

H_2S, LEL, CO/CO-H, O_2, NH_3, SO_2
Coming soon : Cl_2, COSH, CO_2, 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℃ to 75℃ (-22°F to 167°F)
Operating temperature: -20℃ to 55℃ (-4°F to 131°F)
Charging temperature: 0℃ to 45℃ (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℃ to 45℃ ; 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℃ (68°F); 44 hours @ -20℃ (-4°F); 14 hours @ -40℃ (-40°F); It is recommended that the hard wire kit is used anytime below -20℃
Charging connector: Micro USB

Environmental
Storage temperature: -30℃ to 75℃ (-22°F to 167°F)
Operating temperature: -40℃ to 55℃ (-40°F to 131°F) **Charging temperature:** 0℃ to 45℃ (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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Safety when it matters most

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Email: info@guardianangelsafety.co

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