

## THE CONNECTED TECHNOLOGY WORKING TO KEEP YOU SAFE.

The Blackline Safety G7c is a handheld lone worker monitor and gas detector that functions in any situation.

### A connected ATEX gas detector.

The G7c now has an optional push-to-talk feature so you can use the same device as a gas detector, a lone worker monitor and a two-way radio.

It's the world's first complete gas detection system to feature 4G/2G connectivity.

### How does it work?

There's no longer any need to manually collect data out in the field, or analyse and compile reports. All the data automatically logged by G7 devices is fed into the Blackline Safety network via 4G/2G so it can be compiled and integrated into a report.

# blacklinesafety



reddot award 2017 winner



### USER NOTIFICATION



- Green SureSafe® light:**  
Blinking (powered), continuous (connected)
- Yellow top and front lights:**  
Blinking (powered), continuous (connected)
- Red top and front lights:**  
Red alert communicated
- Blue LiveResponse™ top and front lights:**  
Confirmation that a monitoring team has acknowledged the alert

### Blackline Live web-based monitoring software

The cloud-hosted portal can be configured for each requirement, whether that's uploading a map of your site plans, employee addresses, user roles, alert management, device and alert configuration, or detailed reports.

### G7c Wireless Radio

Wireless coverage: 100 countries, 200 wireless carriers  
International: 2G/3G radio, E-GSM 900 MHz, DSC 1800 MHz, 3G UMTS bands 1 and 8  
Antenna: Internal regionally optimised

### Location technology

GPS Radio: 48-channel high sensitivity  
Assisted-GPS: Yes (G7c model only)  
GPS Accuracy: ~5 m (16 ft) Outdoors  
Indoor location technology: Blackline Safety location beacons  
Location update frequency: G7c 5 min, G7x 15 min defaults

### Plug-and-Play design

Streamline your fleet of devices! Gas sensors are available in a cartridge format so your teams can customise the detector to suit their needs.

#### Benefits:

- Replace a cartridge in under one minute
- Change the configuration in real time
- Receive automatic updates

Standard, single or multi with or without sampling pump

### STANDARD FEATURES:

- **Fall and no-motion detection:** tri-axis accelerometer and tri-axis gyroscope, configurable sensitivity, configurable time for no-motion
- **SOS alert:** pull the red latch to trigger an instant alarm
- **Silent alert:** press and hold the red button to trigger a silent alarm
- **Low battery:** configurable value
- **Worker check-in:** configurable timer (30 to 180 mins, or off), automatic check-in when driving





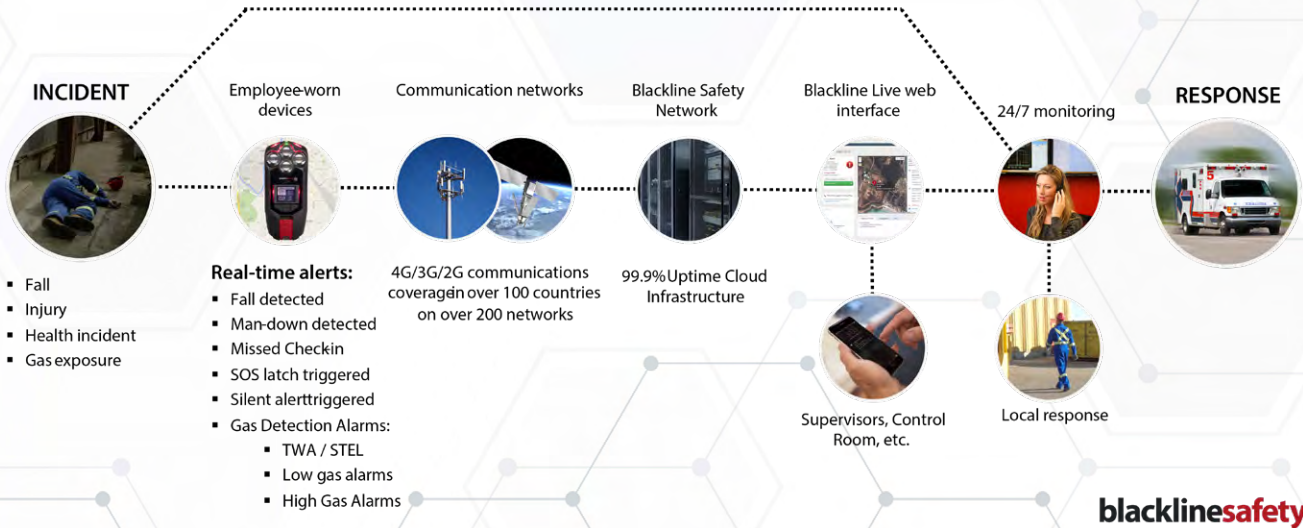
## DID YOU KNOW ?

### WHAT IS BLACKLINE SAFETY?

Blackline Safety is a Canadian company whose CEO is Cody Slater, a pioneer on the portable gas detection market who founded BW Technologies back in the 1980s.

With its teams of engineers and designers, safety operations centre and in-house customer service department, Blackline Safety is now the world leader in connected safety technology with its G7 devices.

The company provides services in more than 100 countries and monitors over 25,000 workers worldwide.



**blacklinesafety**

### TECHNICAL DATA

#### Size:

G7 with Standard Cartridge: 2.52 x 4.88 x 1.06 in. (6.4 x 12.4 x 2.7 cm)

G7 with Single-gas Cartridge: 2.52 x 5.04 x 1.06 in. (6.4 x 12.8 x 2.7 cm)

G7 with Multi-gas Cartridge: 2.52 x 5.91 x 1.06 in. (6.6 x 15.0 x 2.7 cm)

G7 with Multi-gas Cartridge with pump: 2.6 x 5.95 x 1.52 in. (6.6 x 15.1 x 3.85 cm)

**Weight:** 5.7 to 8.4 oz. (162 à 238 g) depending on configuration

#### Temperature:

Storage: -22°F to 167°F (-30°C to 55°C)

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

Charging: 32°F to 113°F (0°C to 45°C)

**Humidity:** 0 to 95 %HR, non condensing

**Operating time:** 18 hrs, charging time in 4hrs

**Alarms:** Visual, vibration and audible (95 dB @ 11.8 in./30cm) Low, High, TWA, STEL, low battery

**User interface:** 168 by 144 pixel graphical, high contrast, liquid crystal display with front lighting, menu system driven by three-button keypad, power button (on/off), check-in button (check-in/silent SOS), SOS latch (send emergency alert)

**Test:** Functional and calibration at start up, date out of date indicator

#### Approvals:

ATEX: Ex da ia IIC T4 Ga II 1 C

IECEX: Ex da ia IIC T4 Ga

Electromagnetic compatibility - Directive 2014/53/EU

**Protection Class:** IP67

**Warranty:** two years, Cartridges: lifetime with service plan

### SENSOR SPECIFICATIONS

Gas	Sensor type	Measuring range	Resolution
Ammonia (NH <sub>3</sub> )	Electrochemical	0-100 ppm	0.1 ppm
High-range ammonia (NH <sub>3</sub> )	Electrochemical	0-500 ppm	1 ppm
Carbon monoxide (CO)	Electrochemical	0-500 ppm	1 ppm
High-range carbon monoxide (CO)	Electrochemical	0-2,000 ppm	5 ppm
Hydrogen resistant carbon monoxide (CO-H)	Electrochemical	0-500 ppm	1 ppm
Carbon dioxide (CO <sub>2</sub> )	NDIR	0-50,000 ppm	50 ppm
Chlorine (Cl <sub>2</sub> )	Electrochemical	0-20 ppm	0.1 ppm
Chlorine dioxide (ClO <sub>2</sub> )	Electrochemical	0-2 ppm	0.01 ppm
Dual tox CO/H <sub>2</sub> S	Electrochemical	0-500 ppm CO 0-100 ppm H <sub>2</sub> S	1 ppm CO 0.1 ppm H <sub>2</sub> S
Hydrogen (H <sub>2</sub> )	Electrochemical	0-40,000 ppm	1% LEL (400 ppm)
Hydrogen cyanide (HCN)	Electrochemical	0-30 ppm	0.1 ppm
Hydrogen sulphide (H <sub>2</sub> S)	Electrochemical	0-100 ppm	0.1 ppm
High-range hydrogen sulphide (H <sub>2</sub> S)	Electrochemical	0-500 ppm	0.5 ppm
LEL-infrared (LEL-IR)	NDIR	0-100% LEL	1% LEL
Oxygen (O <sub>2</sub> )	Electrochemical	0-25% vol	0.1% vol
VOC (PID)	PID	0-6,000 ppm	0.1 ppm (0-100 ppm) 2 ppm (100-6,000 ppm)
Sulphur dioxide (SO <sub>2</sub> )	Electrochemical	0-100 ppm	0.1 ppm
Ozone (O <sub>3</sub> )	Electrochemical	0-1 ppm	0.01 ppm