BLACKRIDGE
SOLUTIONS

G7c

OH&S 2017 NEW PRODUCT OF THE YEAR

ALARMS DON'T SAVE PEOPLE.
PEOPLE SAVE PEOPLE.

The 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 and trigger an evacuation in real-time. With 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 and 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 the 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 (G7c)

Standard G7 Safety Alert Features
All safety alerts are transmitted immediately to the 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 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: 64mm x 124mm x 27mm (2.52"x 4.88"x 1.06")
Weight: 162 g (5.7 oz)

G7 with Single-gas Cartridge
Size: 64mm x 128mm x 27mm (2.52"x 5.04"x 1.06")
Weight: 167 g (5.9 oz)

G7 with Quad-gas Cartridge
Size: 64mm x 150mm x 27mm (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, O_2, NH_3

H_2S (Hydrogen Sulfide)
Sensor Type: Electrochemical
Lowest detection limit: 0.5 ppm
Upper detection limit: 50 ppm
Resolution: 0.1 ppm

LEL combustible
Sensor Type: Infrared
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_2 (Oxygen)
Sensor Type: Pumped electrochemical
Lowest detection limit: 0.1 %vol
Upper detection limit: 25.0 %vol
Resolution: 0.1 %vol

CO_2 (Carbon Dioxide)
Sensor Type: Infrared
Lowest detection limit: 50 ppm
Upper detection limit: 50000 ppm
Resolution: 50 ppm

NH_2 (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 acknowledges
Personal alarm indicators: speakers, 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: Location beacons
Location update frequency: G7C 10 sec and G7x 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

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

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 set-ups and reporting

All specifications subject to change without notice