

► G7 EXO

Connected Area Gas Monitor



Technical specifications

Gas cartridges specifications

- Available gas sensors: Cl₂, ClO₂, CO, CO₂, H₂, H₂S, HCN, NH₃, O₂, O₃, SO₂, explosive gases and VOCs (Volatile organic compounds)
- Threshold overshoot alerts (2 thresholds)
- TWA alerts (Time Weighted Average)
- STEL alert (Short Term Exposure Limit)
- Reliability test and calibration notification

User Interface

Display: 8-color active matrix liquid crystal display, 480x640 pixels

Menu system: three-button keypad

Emergency latch: send an emergency alert

Multilingual assistance: EN, FR, SP, GE, IT, NL, PT

User notification

- 360-degree visible light indicators
- Green connectivity indicator: flashing (powered) / continuous (connected)
 - Yellow indicator: pending and warning alerts
 - Red indicator: alert communication
 - Blue indicator: alert acknowledgment confirmation
 - Alarm sound level: 100 dB at 30 cm
 - Two-way voice call sound level: 95 dB at 30 cm

Housing

Case material: Robust aluminum and plastic housing with rubber bumper

Dimensions: 385 mm x 188 mm x 220 mm

Weight: 9,5 kg

Product description

The **G7 EXO** area gas monitor is the first area monitoring device connected to the cloud with integrated 2G / 3G / 4G communication. It automatically connects to the Blackline Safety cloud network and continuously transmits critical site safety information such as gas detection alarms.

With its aluminum structure, the **G7 EXO** area gas monitor is designed to withstand the most difficult conditions while remaining easy to transport use and. A powerful alarm and a series of LEDs communicate the events to personnel around it, while simultaneously transmitting the alert via the Blackline Safety cloud network to other connected devices.

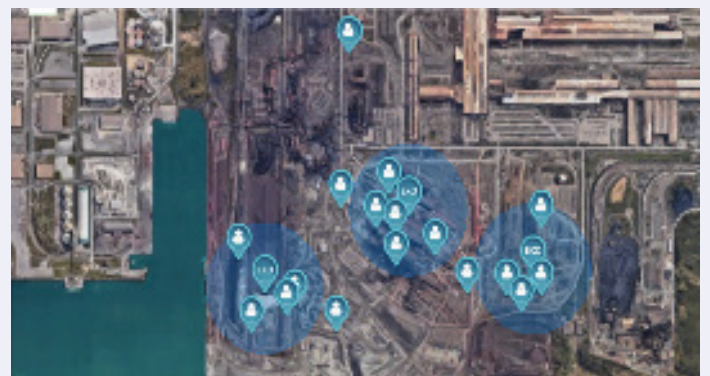
► The most powerful area gas monitor on the market

Able to detect up to 5 gases simultaneously and with a record autonomy of over a 100 days, it has 2 potential free contacts for additional servo-controls (additional signals, start of forced ventilation, power stop, etc.)

A latch on the front of the **G7 EXO** area gas monitor activates a "Man in distress" alarm and instantly informs the security control center and all connected group peers. The reduced decision chain and the geolocation of the alert allow faster and safer intervention in the event of significant risk.

► New generation area monitoring

The **G7 EXO** area gas monitor automatically generates smart zones, sector specific areas to transmit alerts to carriers working in the zone without interfering with other sectors.



► Blackline Live online application

Blackline Live is a portal hosted online, it is highly customizable so that it can be adapted to the needs of each specific feature and customer requirements. This application includes an interactive map, the employee directory, user roles, alert management, device configurations, alert and report settings.

List of detected gases

Gas	Sensor type	Measuring range	Resolution
Ammonia	Electrochemical	0-100 ppm NH3	0,1 ppm
High content ammonia	Electrochemical	0-500 ppm NH3	1 ppm
Chlorine	Electrochemical	0-20 ppm Cl2	0,1 ppm
Volatile organic compounds (VOCs)	PID lamp	0-10,000 ppb*	Dynamic resolution *
Volatile organic compounds (VOCs)	PID lamp	0-4,000 ppm*	Dynamic resolution *
Hydrogen cyanide	Electrochemical	0-30 ppm HCN	0,1 ppm
Nitrogen dioxide	Electrochemical	0-50 ppm NO2	0.1 ppm
Carbon dioxide	Infrared	0-50 000 ppm CO2	50 ppm
Chlorine dioxide	Electrochemical	0-2 ppm ClO2	0,01 ppm
Sulphur dioxide	Electrochemical	0-100 ppm SO2	0.1 ppm
Explosive gases	Infrared	0-100 % LEL	1 % LEL
Hydrogen	Electrochemical	0-40 000 ppm H2	1 % LEL (400 ppm H2)
Carbon monoxide	Electrochemical	0-500 ppm CO	1 ppm
Carbon monoxide / Hydrogen sulfide	Electrochemical	0-500 ppm CO, 0-100 ppm	1 ppm CO / 0,1 ppm H2S
High content carbon monoxide	Electrochemical	0-2000 ppm CO	5 ppm
Hydrogen resistant carbon monoxide	Electrochemical	0-500 ppm CO	1 ppm
Oxygen	Electrochemical	0-25 % vol O2	0,1 % vol
Ozone	Electrochemical	0-1 ppm O3	0,01 ppm
Hydrogen sulfide	Electrochemical	0-100 ppm H2S	0,1 ppm
High content hydrogen sulfide	Electrochemical	0-500 ppm H2S	0,5 ppm

* Depends on the correction factor

Communication technical specifications

▶ Wireless cellular radio

Coverage: Over 100 countries and over 200 operators

Europe: 2G / 3G or 2G / 4G

North America: 2G / 3G or 3G / 4G

Australia / New Zealand: 2G / 3G or 3G / 4G

Antenna: Optimized for the region

▶ Wireless updates

Device configuration changes: yes

Device firmware update by radio link: yes

▶ Location technology

Radio GPS: 48 channels with high sensitivity

Assisted GPS: yes

GPS accuracy: ~ 5 m (16 ft) outdoors in open field

Area gas monitor radio locator: Yes, Blackline's exclusive locator area gas monitor technology and site floor plans

▶ Wireless satellite radio option

Supplement that can be added by the user: yes

Network: Iridium, global coverage

Options & Accessories

- 4-channel sampling period
- Solar panel for continuous monitoring
- Mounting accessories (wall mounting, tripod, anti-tip, magnetic and on rail / scaffolding)

An interconnected network

The **G7 EXO** gas detection monitor offers unrivaled zone control and monitoring in a robust system that is easy to use and deploy.

All information is instantly brought up on a portal for optimum monitoring and security. The configuration parameters or the gas alarm thresholds can be modified at any time in a few seconds by radio link without on site intervention.

The G7c gas detector with geolocated PTI



The **G7c** is the only ATEX zone 0 portable device to be able to offer both a complete PASS (lone worker alert device) with a gas detector (single or multi gas) and a walkie-talkie (real-time dialogue).

Like the **G7 EXO** gas detection monitor, it works in multi-operator 2G / 3G connectivity to inform and protect personnel working in at risk areas in real time. On the same principle as telephony, the Blackline G7c works on the principle of a subscription from 1 to 5 years with a whole of service panel adapted to each need.

Offering professional security monitoring and emergency response management services for field teams, **Blackline's security operations center is on call 24/7**. At the same time, it is entirely possible to manage alarms internally or with another remote monitoring partner.