**G7 EXO**

**Connected Area Gas Monitor**

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**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

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**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 and use. 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

<table>
<thead>
<tr>
<th>Gas</th>
<th>Sensor type</th>
<th>Measuring range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>Electrochemical</td>
<td>0-100 ppm NH3</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>High content ammonia</td>
<td>Electrochemical</td>
<td>0-500 ppm NH3</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Chlorine</td>
<td>Electrochemical</td>
<td>0-20 ppm Cl2</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Volatile organic compounds (VOCs)</td>
<td>PID lamp</td>
<td>0-10,000 ppb*</td>
<td>Dynamic resolution *</td>
</tr>
<tr>
<td>Volatile organic compounds (VOCs)</td>
<td>PID lamp</td>
<td>0-4,000 ppm*</td>
<td>Dynamic resolution *</td>
</tr>
<tr>
<td>Hydrogen cyanide</td>
<td>Electrochemical</td>
<td>0-30 ppm HCN</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>Electrochemical</td>
<td>0-50 ppm NO2</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>Infrared</td>
<td>0-50 000 ppm CO2</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Chlorine</td>
<td>Electrochemical</td>
<td>0-2 ppm ClO2</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td>Sulphur dioxide</td>
<td>Electrochemical</td>
<td>0-100 ppm SO2</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Explosive gases</td>
<td>Infrared</td>
<td>0-100 % LEL</td>
<td>1 % LEL</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>Electrochemical</td>
<td>0-40 000 ppm H2</td>
<td>1 % LEL (400 ppm H2)</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>Electrochemical</td>
<td>0-300 ppm CO</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Carbon monoxide / Hydrogen sulfide</td>
<td>Electrochemical</td>
<td>0-500 ppm CO, 0-100 ppm</td>
<td>1 ppm CO / 0,1 ppm H2S</td>
</tr>
<tr>
<td>High content carbon monoxide</td>
<td>Electrochemical</td>
<td>0-2000 ppm CO</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Hydrogen resistant carbon monoxide</td>
<td>Electrochemical</td>
<td>0-500 ppm CO</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Oxygen</td>
<td>Electrochemical</td>
<td>0-25 % vol O2</td>
<td>0,1 % vol</td>
</tr>
<tr>
<td>Ozone</td>
<td>Electrochemical</td>
<td>0-1 ppm O3</td>
<td>0,01 ppm</td>
</tr>
<tr>
<td>Hydrogen sulfide</td>
<td>Electrochemical</td>
<td>0-100 ppm H2S</td>
<td>0,1 ppm</td>
</tr>
<tr>
<td>High content hydrogen sulfide</td>
<td>Electrochemical</td>
<td>0-500 ppm H2S</td>
<td>0,5 ppm</td>
</tr>
</tbody>
</table>

* 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.