

Specifications.

Gas detection features

Under and over limit alerts
Time-weighted average (TWA)
Short-term exposure limit (STEL)
Low and high gas alerts
Bump test and calibration notification
Bump test and calibration failure

User interface

Display: 480 by 640 pixel, eight-color active matrix liquid crystal display
Menu system: driven by three-button keypad
Power button: On/off
SOS latch: Send emergency alert
Multi-language support: (EN, FR, ES, DE, IT, NL, PT)

User notification

Green connectivity light: Blinking (powered), continuous (connected)
360-degree visible yellow and red lights
Yellow light: pending and warning alarms
Red light: Red alert communicated
Blue LiveResponse light: Confirmation that a monitoring team has acknowledged the alert
Alarm sound pressure: ~100 dB @ 30 cm (11.8")
Two-way voice calling sound pressure: ~95 dB @ 30 cm (11.8")

Pump module

Number of pump channels: 4
Sampling period per channel: Adjustable
Tubing length per channel: Up to 30 m (100 ft)

Input / output ports

Intrinsically safe, highly configurable external signal ports designed to integrate with external alarms and electrical systems.
Intrinsic safety specification: TBD

Power & battery

Rechargeable battery capacity: 144 Ah (LiFePO₄)
Battery life in diffusion mode:
100 days at 20°C (68°F), LEL-IR, H₂S, CO and O₂ config.
Battery life in pump mode:
30 days at 20°C (68°F), LEL-IR, H₂S, CO and O₂ config.
Charge time: TBD
Intrinsically safe trickle-charging port: Yes, supports G7 EXO continuous operation

Cellular wireless radio

Coverage: 100+ countries and 200+ carriers
Europe: 2G/3G or 2G/4G
North America: 2G/3G or 3G/4G
Australia/New Zealand: 2G/3G or 3G/4G
Antenna: Regionally optimized
Band specifications: TBD

Satellite wireless radio option

User-upgradeable add-on: Yes
Network: Iridium, global coverage

Wireless updates

Device configuration changes: Yes
Device firmware upgrade OTA: Yes

Location technology

GPS radio: 48-channel high sensitivity
Assisted-GPS: Yes
GPS accuracy: ~5 m (16 ft) outdoors, open sky
Location beacon radio: Yes, Blackline's proprietary location beacon technology and floor/site plans

Size & weight

Material: Rugged housing built from aluminum, plastic and rubberized bumpers
Size: 385 mm x 188 mm x 220 mm (15.1" x 7.4" x 8.7")
Weight: 9.5 kg (21 lb)

Environmental

Storage temp.: -40°C to 60°C (-40°F to 140°F)
Operating temp.: -40°C to 55°C (-40°F to 131°F)
Charging temp.: 0°C to 45°C (32°F to 113°F)
Ingress protection: Designed to meet IP65

Approvals (targeted)

RoHS, CE, RCM
Canada & USA: Class I Division 1 Group A,B,C,D T4;
Class I Zone 0 AEx da ia IIC T4; Ex da ia IIC T4 Ga
IECEX: Ex da ia IIC T4 Ga
ATEX: Ex da ia IIC T4 Ga
LEL: CSA C22.2 No.152; ISA 12.13.01

Accessories

Solar panel for continuous monitoring. Mounting options include wall, 1 ft tripod, 3 ft tripod, magnetic and rail/scaffold mounts

Gas sensor options

Ammonia, high-range ammonia, carbon dioxide, carbon monoxide, high-range carbon monoxide, chlorine, chlorine dioxide, COSH, hydrogen cyanide, hydrogen sulfide, high-range hydrogen sulfide, hydrogen-resistant carbon monoxide, LEL-infrared, LEL-pellistor, nitrogen dioxide, oxygen, ozone, photoionization detector, sulfur dioxide

Blackline 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 setups and reporting

Warranty

G7 EXO area monitor: two-year hardware warranty
Gas sensors and pumps: lifetime warranty with active service plan
Blackline Complete lease option: provides comprehensive warranty for full three-year term

All specifications subject to change without notice.