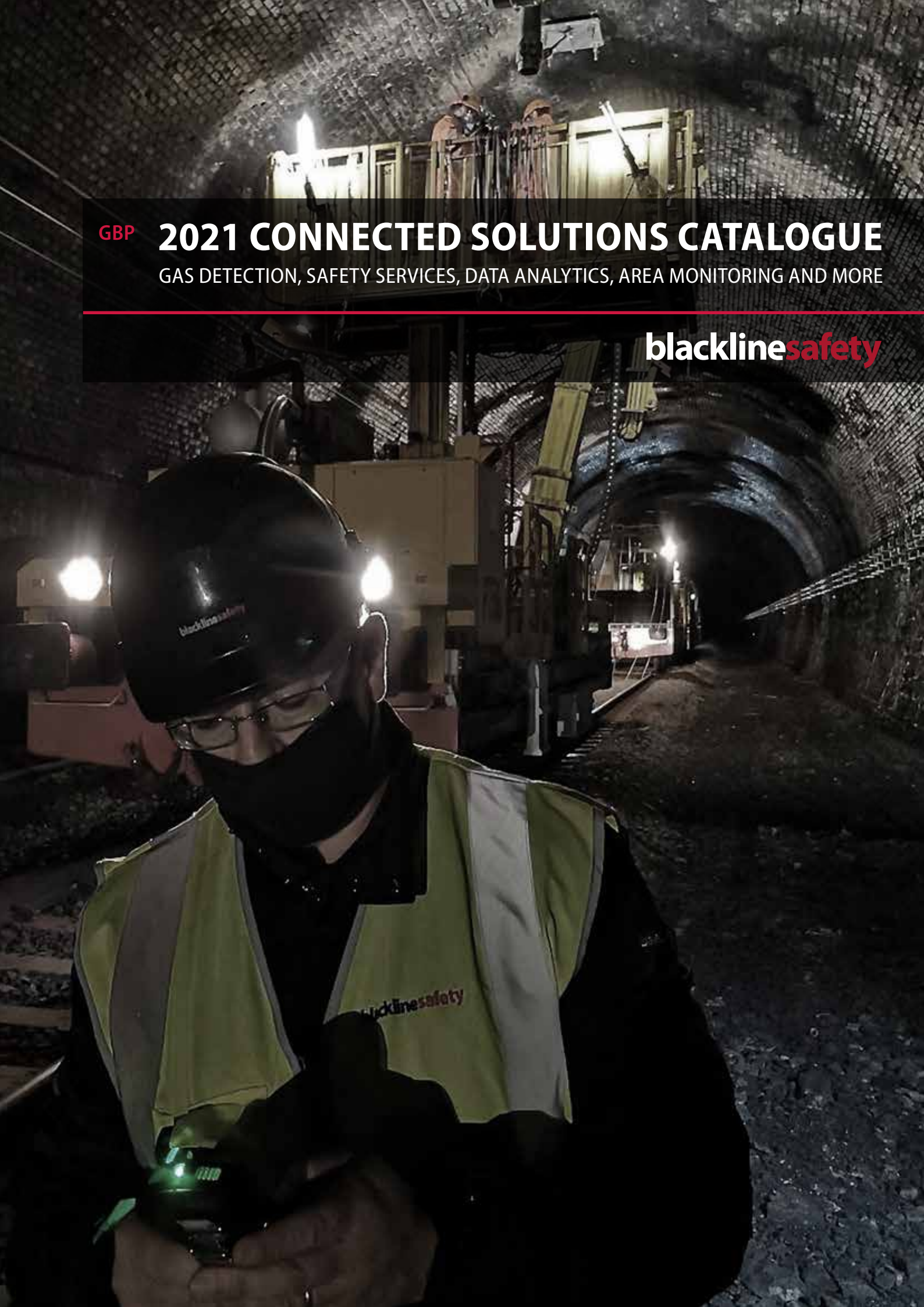GBP

2021 CONNECTED SOLUTIONS CATALOGUE

GAS DETECTION, SAFETY SERVICES, DATA ANALYTICS, AREA MONITORING AND MORE

blacklinesafety

OUR PURPOSE

Dear Partners in Safety,

Over the last 15 years, Blackline has tirelessly pursued innovation at the forefront of connected safety. We showed the world how to meet the challenge of keeping lone workers safe and revolutionised the personal gas detection industry. With decades of experience, our team has already delivered some of the world's most advanced solutions in communications, location technology and gas detection.

Our purpose is to ensure every worker has the confidence to get the job done and return home safe.

At Blackline Safety, we strive to transform the industrial workplace through connected safety technology, increasing visibility of operations and allowing businesses around the world to keep their workforce safe.

We approach safety in a different way than most industrial companies, and we punch above our weight. We deliver the world's hardest-working range of direct-to-cloud connected personal and area gas detection and safety monitoring systems, powered by the best online compliance dashboard, automated analytics tools and data science services.

Blackline, at its core, is a service-oriented business, and we are passionate about the engineering, manufacturing and designing that make us the best at what we do. We stand behind our products, services and customers.

We look forward to working with you to make the world a safer place for teams in every industry.

Cody

Cody Slater, CEO & Chairman

2004, **Blackline founded**

2007, **Loner GPS** — first lone worker solution

2007, **Loner Portal** — cloud-hosted monitoring software

2008, **Loner Mobile** 1.0 — for BlackBerry phones

2009, **Blackline goes public**

2011, **Loner Duo** — for Loner Mobile

2012, **Loner SMD** — safety monitoring device

2012, **Loner IS** — intrinsically safe monitoring device

2013, **Loner IS+** — extended battery capacity

2014, **Loner 900 & Loner Bridge** — satellite monitoring

2015, **Loner Mobile** 1.2 — Android, iOS and BlackBerry

2016, **Loner M6/M6i** — two-way voice calling

2016, **Blackline Live** cloud-hosted portal launched

2017, **G7c** — first cellular safety monitoring device with optional gas sensors

2017, **G7x & G7 Bridge** — remote worker monitoring

2017, **G7 Dock** — bump test, calibration, charge station

2017, **Loner Mobile** 1.7

2018, Five Diamond Certification for in-house **Safety Operations Center**

2018, **Blackline Analytics** reporting platform

2018, **PID gas sensor system** for G7 wearables

2018, **push-to-talk** for G7 wearables

2018, **first-generation G7 EXO** direct-to-cloud area monitor

2019, **pump cartridge** for confined space entry and leak check applications

2019, **Blackline Vision** data science division

2019, next-gen **G7 EXO debuted on world tour**

2020, **G7 EXO** ships to market

2020, new NevadaNano **LEL-MPS sensor** launched
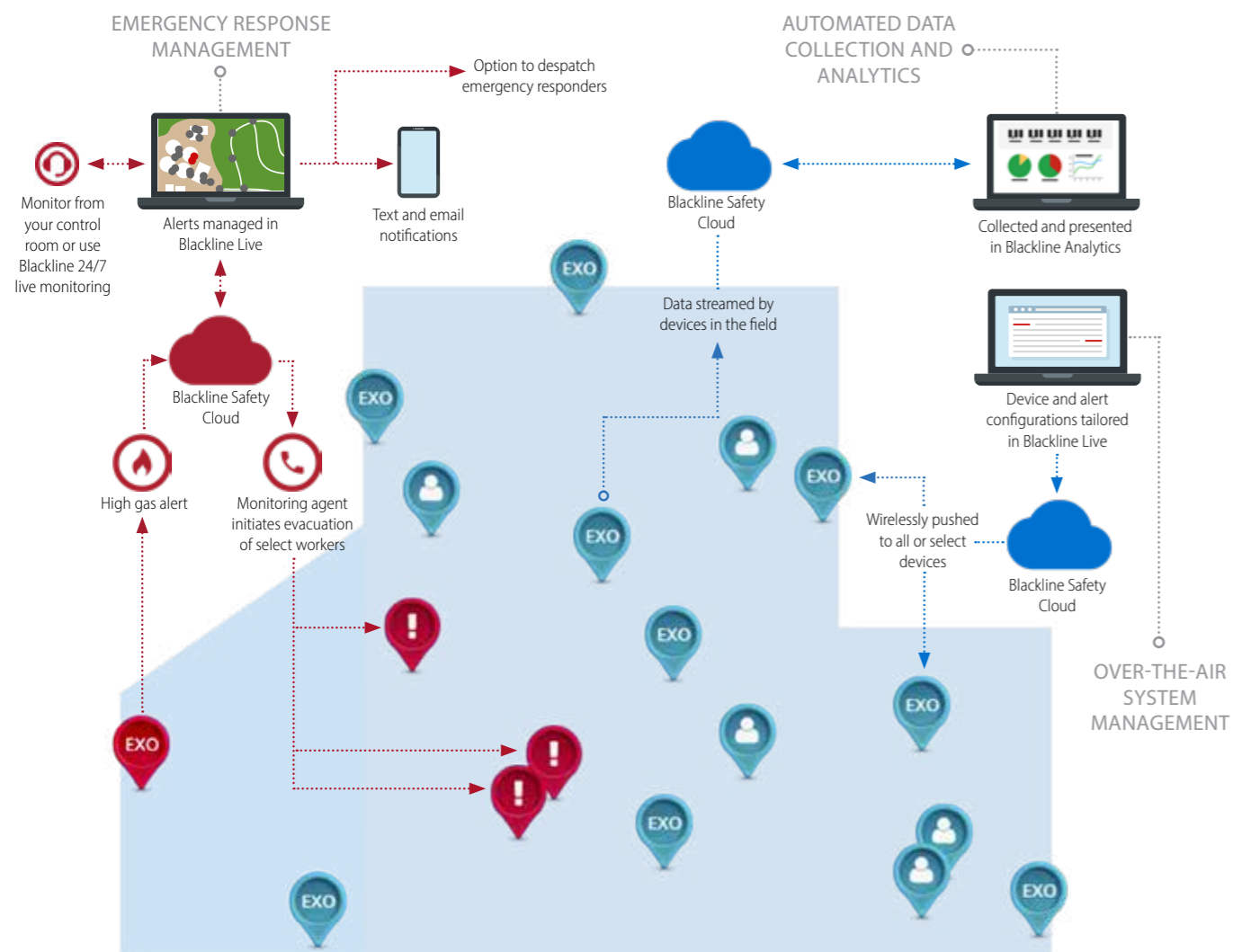

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Connectivity is standard.

Blackline Safety transforms the industrial workplace through connected safety technology, increasing visibility of operations and allowing businesses around the world to keep their workforce safe. Unlike our competitors, connectivity is a standard — for every one of our safety solutions.

Our portfolio of G7 wearables, G7 EXO area monitoring systems and software solutions incorporate state-of-the-art technologies which address the shortcomings of other systems. Wireless connectivity links workers by integrating connectivity with live monitoring personnel and automating gas detection compliance and reporting processes. Blackline's solutions empower teams to monitor their environment for hazards and respond instantly should something happen. When it comes to safety, Blackline's G7 solutions can make the ultimate difference.

EMERGENCY RESPONSE MANAGEMENT

Option to despatch emergency responders

Monitor from your control room or use Blackline 24/7 live monitoring

Alerts managed in Blackline Live

Text and email notifications

Blackline Safety Cloud

High gas alert

Monitoring agent initiates evacuation of select workers

AUTOMATED DATA COLLECTION AND ANALYTICS

Blackline Safety Cloud

Collected and presented in Blackline Analytics

Data streamed by devices in the field

Device and alert configurations tailored in Blackline Live

Wirelessly pushed to all or select devices

Blackline Safety Cloud

OVER-THE-AIR SYSTEM MANAGEMENT

G7 CONNECTED SAFETY MONITOR

G7 safety monitoring and gas detection wearable devices utilise integrated cellular connectivity to wirelessly link your team to real people, while automating data analytics and compliance reporting. Should a gas leak, injury or health event occur, G7 confidently accounts for everyone's well-being and whereabouts in real-time, so no call for help ever goes unanswered.

- Gas monitoring (diffusion and pump)
- Automated, configurable fall and no-motion detection
- Emergency SOS latch
- Scheduled automatic check-in process
- Unlimited range
- Two-way voice and messaging capability
- Optional push-to-talk functionality
- Over-the-air firmware and configuration updates
- Direct-to-cloud data streaming
- Assisted GPS for location tagged gas readings and alerts

G7 EXO AREA MONITOR

G7 EXO is the world's first direct-to-cloud area monitor that delivers ultimate control of, and visibility into, a business's entire workforce and facility. With integrated cellular and optional satellite connectivity, G7 EXO automatically connects directly to the Blackline Safety Cloud and works alongside employee-worn G7 devices, streaming critical insights that create a more engaged, safer workforce.

- 100+ day battery life
- Direct-to-cloud data streaming
- No network limitations to the number of devices that can communicate with one another
- Manage G7 EXO area monitors alongside G7 monitors
- Emergency SOS latch
- Diffusion and optional four-channel pump gas monitoring
- Optional push-to-talk functionality

BLACKLINE LIVE

The Blackline Live portal allows businesses to monitor their teams while equipping them with leading alert management tools, compliance dashboard and comprehensive configuration management of devices in the field. Users can quickly view the safety status of any team member from any internet connected device.

- Real-time alert management
- Cloud-hosted data storage
- Centralised device management
- Alert profile and device configuration tools
- Real-time gas detection compliance dashboard
- Tailored emergency response protocols

BLACKLINE ANALYTICS

Built directly into the Blackline Live portal, Blackline Analytics delivers a series of pre-configured and interactive reports that present much of the information businesses need to keep their teams safe and maximise productivity. All data is uploaded directly into the platform in a series of maps, graphs and tables to help users derive important insights about their business, measure KPIs, drive safety and productivity initiatives and power informed decision making.

- 12 reports, with more in development
- Helps measure real-world performance against KPIs
- Interactive dashboards allow users to search further into data and investigate specific information

blacklinevision **Want more from your data?** For customers looking for more highly-customised options to meet their business needs, Blackline Vision offers a variety of bespoke dashboards, workshops, data delivery and data analytics tools. **See page 10 for more.**

BLACKLINE SERVICES

Core services are included with every service plan, while operational services can be added, to tailor system functionality and accommodate every client scenario.

G7 EXO and G7 Devices   +   Connectivity   Blackline Live   Cartridges and gas sensors
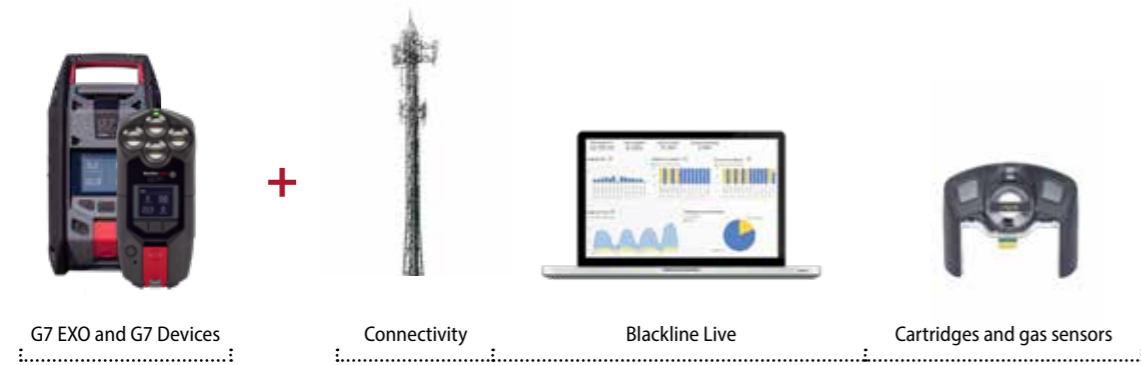
CORE SERVICES

Connectivity

G7 wearable and G7 EXO area monitoring devices' integrated cellular and satellite connectivity is the critical link between devices in the field and the Blackline Safety Cloud. Service plans deliver unlimited access to multiple cellular carriers, with the option to also connect to Iridium's unparalleled global satellite network (G7 EXO only). All data is securely transmitted for compliance reporting and data analytics, and configurations and firmware updates are pushed wirelessly without taking devices out of the field.

Blackline Live portal

Blackline Live is a state-of-the-art web portal that can be securely accessed from any internet-connected computer or mobile device. Multiple members of an organisation can be invited with specific user access controls and permissions, for no additional cost. Blackline Live users will have only the level of access they require to perform their duties. Tailor permissions for each account user, to provide only the necessary level of access to individuals or groups. Our cloud-hosted servers deliver unlimited data storage, allowing you to dive deep into your data to investigate and optimise operations.

- Wireless device configuration
- Automated compliance dashboard
- Blackline Analytics, data management and reporting

The safety status of every team member is visible at a glance on a live map in Blackline Live. Easily identify where an employee is, and view the type and status of an alert the moment it happens.

Compliance dashboard

Accessed in Blackline Live, the live compliance dashboard delivers a real-world view of G7 and G7 EXO fleet compliance. G7 and G7 EXO devices automatically record all gas detection bump test and calibration data and upload it to Blackline Live. Compliance data is simply and clearly displayed in a series of charts and graphs, indicating key insights that can be used to optimise gas detection compliance programmes.

Blackline Analytics

Blackline Analytics delivers a complete view of a fleet's operations. G7 and G7 EXO devices deliver more data than ever before, compiled in Blackline Analytics in a series of pre-configured reports for straightforward review and to provide insights over time. Easily identify how and where equipment is being used, where hazards are being encountered and even determine which assets are performing well and which can be more effectively utilised.

Every bump test, calibration, gas exposure and usage session is automatically recorded for hassle-free reporting. By making best use of integrated connectivity and automated data collection, G7 builds a body of data today, providing measurable performance for tomorrow.

Cartridge and gas sensor service

Choose from a Standard (no-gas), Single-gas Diffusion, Multi-gas Diffusion and Multi-gas Pump Cartridge, and then from a range of sensors to address the demands of your environment.

Standard Sensors
- Hydrogen sulphide (H_2S)
- High-range hydrogen sulphide (H_2S)
- Combustible (LEL-MPS)
- Combustible (LEL-infrared)
- Oxygen (O_2)
- Carbon monoxide (CO)
- High-range carbon monoxide (CO)
- Hydrogen-resistant (CO-H)
- Sulphur dioxide (SO_2)

Premium Sensors
- Ammonia (NH_3)
- High-range ammonia (NH_3)
- Chlorine (Cl_2)
- Chlorine dioxide (ClO_2)
- Carbon dioxide (CO_2)
- Hydrogen cyanide (HCN)
- Hydrogen (H_2)
- Ozone (O_3)
- Nitrogen dioxide (NO_2)
- Photoionisation (PID) ppm
- CO+H_2S (COSH)

G7 and G7 EXO SOS latch

At it's core, the newly-patented SOS latch featured on G7 wearable and G7 EXO devices can be configured to send a notification to a designated contact via text message or email. For customers looking for additional functionality, the SOS latch can be configured to connect users to a live monitoring team.

BLACKLINE SERVICES

OPTIONAL SERVICES

Allow incidents to be addressed as they happen. G7 wearables and G7 EXO systems are the only solutions that can confidently identify the real-time whereabouts and well-being of workers in the field. Optional services use G7's connectivity to link employees with monitoring personnel.

Real-time alerts

G7 devices can be configured to detect incidents and call for help as they happen, notifying live monitoring personnel who can initialise an emergency response. Real-time alerts include the manual SOS latch and automated gas exposure, fall, no-motion and missed check-in detection.

Blackline Live monitoring

Delivering professional safety monitoring and emergency response management for teams in the field, Blackline's global network of ARCs (Alarm Receiving Centres) focus on monitoring the wellbeing of employees. SOC personnel manage all alerts in real-time from receipt to resolution following tailored and documented emergency response protocols.

Two-way voice calling

In the event of an emergency, G7c and G7 EXO users can instantly connect with monitoring personnel via the built-in two-way speakerphone. Two-way text messaging is available as a standard service with all real-time service plans for G7c and G7 EXO monitors.

Push-to-talk

G7c and G7 EXO devices feature push-to-talk (PTT) functionality. Push-to-talk allows G7c and G7 EXO units to function similarly to a walkie-talkie — device users in the same organisation and on the same channel are able to have two-way conversations with one another in real-time. Communicate with up to 250 users on the same channel, with 100 channels for each Blackline Live organisation account.

Service Plan Options

	System access	Self-monitored	Blackline 24/7 monitored
Configure settings over-the-air	●	●	●
Real-time compliance dashboard	●	●	●
Live location data streaming	●	●	●
Powerful analytics and reporting interface	●	●	●
Cloud-based platform with 99.9% uptime	●	●	●
Custom emergency response protocols		●	●
Fall detection, no-motion, check-in system		●	●
Mass notifications and two-way messaging		●	●
Base Blackline Analytics		●	●
Trained responder handling alerts			●
24/7, year round monitoring coverage			●
99.5% response time in under 60 seconds			●

BLACKLINE PROFESSIONAL SERVICES

Blackline's professional services empower simple and smooth deployments, ensuring solutions are tailored to accommodate the needs of every customer.

Activation and professional onboarding

For new customers or a new site, our Deployment team works to manage change, ensure a seamless transition and deliver additional training as needed.

SER-PRO	Activation and professional onboarding	£75/10 devices

Adding devices to existing accounts

For existing customers or distribution partners, our Deployment team works to seamlessly integrate more devices into an existing Blackline Live organisation account.

SER-ADD	Adding devices to existing accounts	£0

Adding stock devices to accounts

For distribution partners adding Blackline devices to their product stock, our Deployment team helps ensure service is appropriately configured.

SER-STOCK	Add stock devices to account	£0

Demo account onboarding

For distributor partner sales teams, our Sales Engineering team organise the demo devices in Blackline Live and facilitate employee training.

SER-DEMO	Demo account onboarding	£0

Rental customer onboarding

For distribution partners needing full training and account set-up for rental devices, or for those adding devices to their rental fleet.

SER-RENTAL	Rental customer onboarding	£0

Custom floor and site plans

Our Deployment team can add custom floor and site plans into Blackline Live to provide more comprehensive situational awareness. Floor plans work in conjunction with Location Beacons to provide a detailed view of employee locations in the context of their surroundings.

FLP-ADD	Adding custom floor/site plans into Blackline Live, price per floor/site plan	£149

DATA SCIENCE SERVICES

A comprehensive data analytics strategy is integral to being competitive in today's rapidly expanding technological environment. Our Blackline Vision data science team helps businesses with their digital transformations, focusing on safety and productivity programmes through descriptive, prescriptive and predictive analytics. By equipping teams with the infrastructure and strategies to uncover relationships within their data, the Blackline Vision team delivers actionable insights — without any extraneous noise.

With a broad range of services, consulting, connectivity, detection and location technologies, Blackline Vision opens the door to new possibilities.

- Identify gaps in employee training by understanding their behaviour in the field
- Integrate with connected safety and learning management software to know when employees are entering locations that require training they have not yet received
- Compare one facility to another across a broad range of metrics to understand how improvements can be made
- Combine real-time safety data with each incident in your HSE software to see cause-and-effect

CUSTOM DASHBOARDS AND REPORTING

Custom dashboards and reports take the information and tools from Blackline Analytics one step further by providing highly-customisable visualisations of your data. All the information is tailored in a way that makes the most sense for the business.

The creation of each custom dashboard and report has a one-off fee. Each dashboard or report requires annual service for hosting, maintenance and support. Blackline provides clients with a formal quote when a statement of work has been agreed upon. Pricing depends on dataset size, data frequency and scope.

CUSTOM DASHBOARD/REPORT	
VS-CDB	Starts at £3,100 each (one-off fee)
HOSTING, MAINTENANCE, SUPPORT	
SER-VS-CDB-1Y	Starts at £3,100 each (annually)

DATA DELIVERY

Whether it's a direct database connection, secure FTP transfer or an e-mail, Blackline Vision delivers the data businesses need to see in their preferred format, to their preferred systems.

Data delivery follows a traditional extract, transform and load (ETL) process. Each ETL has a one-off fee and requires one annual service unit for hosting, maintenance and support. Blackline provides clients with a formal quote when a statement of work has been agreed upon. Pricing depends on dataset size, data frequency and scope.

ETL DEVELOPMENT	
VS-ETL	Starts at £3,100 each (one-off fee)
HOSTING, MAINTENANCE, SUPPORT	
SER-VS-ETL-1Y	Starts at £3,100 each (annually)

DIGITAL TURNAROUNDS, SHUTDOWNS AND CONSTRUCTION PROGRAMME

Digital turnarounds, shutdowns and construction use connected safety, people tracking and asset tracking technologies. These components come together to deliver complete situational awareness, supporting real-time decision-making to control outcomes.

Blackline Vision makes best use of the full suite of Blackline's data science, connected wearables and upcoming connected area monitoring, including:

- Proactive orchestration of workforce activities, knowing upcoming tasks and the location of people and resources
- Visibility of time-on-tools through interactive reporting that enables comparisons between teams, individuals and other projects
- Integration with project management software including Primavera P6
- Response to emergencies using real-time connected safety wearables, complete with two-way voice calling
- Display personnel and equipment locations on custom site and floor plans

Digital turnarounds, shutdowns and construction projects have a one-time fee and require annual service for hosting, maintenance and support. Blackline provides clients with a formal quote when a statement of work has been defined.

DIGITAL TURNAROUNDS, SHUTDOWNS, CONSTRUCTION DEVELOPMENT	
VS-STO	Starts at £9,300 each (one-off fee)
HOSTING, MAINTENANCE, SUPPORT	
SER-VS-STO-1Q	Starts at £1,550 each (quarterly)

DATA INTEGRATION

Blackline Vision provides value to businesses beyond the visualisations and analytics related to G7 devices in the field. Using data integration tools, the team can ingest other data sources, including safety events, employee schedules and weather data to look for correlations and relationships. Blackline Vision can create a custom solution that caters to any need, including a sole-residency database on Blackline's network.

Data integration projects have a one-off fee and require annual service for hosting, maintenance and support. Blackline provides clients with a formal quote when a statement of work has been agreed upon. Pricing depends on dataset size, data frequency and scope.

DATA INTEGRATION DEVELOPMENT	
VS-INT	Starts at £6,200 each (one-off fee)
HOSTING, MAINTENANCE, SUPPORT	
SER-VS-INT-1Y	Starts at £3,100 each (annually)

SAFETY AND INDUSTRIAL HYGIENE PROGRAMME

Safety and industrial hygiene are key topics for industry-leading businesses. Regardless of whether its regular operations or an outage that requires overtime, the safety of every on-site worker must not be compromised. Blackline Vision makes use of the full suite of Blackline's data science, connected wearables and potential integrations with other information systems. For example:

- Combine movement pattern analysis with photoionisation detector data to estimate employees' long-term exposure to a chemical
- Integrate real-time safety and emergency response management data with health and safety software
- Combine data from employee scheduling software with connected wearable usage to gain a larger view of usage compliance

Safety and industrial hygiene projects have a one-off fee and require annual service for hosting, maintenance and support. Blackline provides clients with a formal quote when a statement of work has been defined.

SAFETY AND INDUSTRIAL HYGIENE DEVELOPMENT	
VS-HSE	Starts at £9,300 each (one-off fee)
HOSTING, MAINTENANCE, SUPPORT	
SER-VS-HSE-1Y	Starts at £3,100 each (annually)

The Blackline Vision team works with customers to provide recommendations by analysing and manipulating data from multiple sources. Whatever your business requires, we go beyond the basics, driving business insights through descriptive visualisations, predictive reporting and tools to empower your decision making.

**WALKING THE WALK — CASE STUDY**
The Blackline Vision team provided the following observations and recommendations to a customer after analysing their various data sources.

Observations:
- Pointed out some sub-contractor groups were abnormally inefficient
- Identified some contractors using the wrong bus routes early on

Recommendations:
- Re-allocated some sub-contractor groups that were abnormally inefficient
- Added new muster zones
- Added two additional smoking areas that are closer to work areas
- Introduced 12 hour reports to compare day shift and night shift
- Adjusted evacuation protocols based on travel times
- Duplicated some primary day shift processes for the night shift to close a shift inefficiency gap
- Changed process for assigning and handing out G7 devices to improve efficiency
- Quantified the efficiency of each tool store
- Optimised cool-down station placement when there are heat warnings in the area
- Encouraged the client to not use the on-site lunch building, given the expansion of their facility
- Displayed ramp-up/ramp-down of users and effective work hours
- Recommended new pathways from specific zones
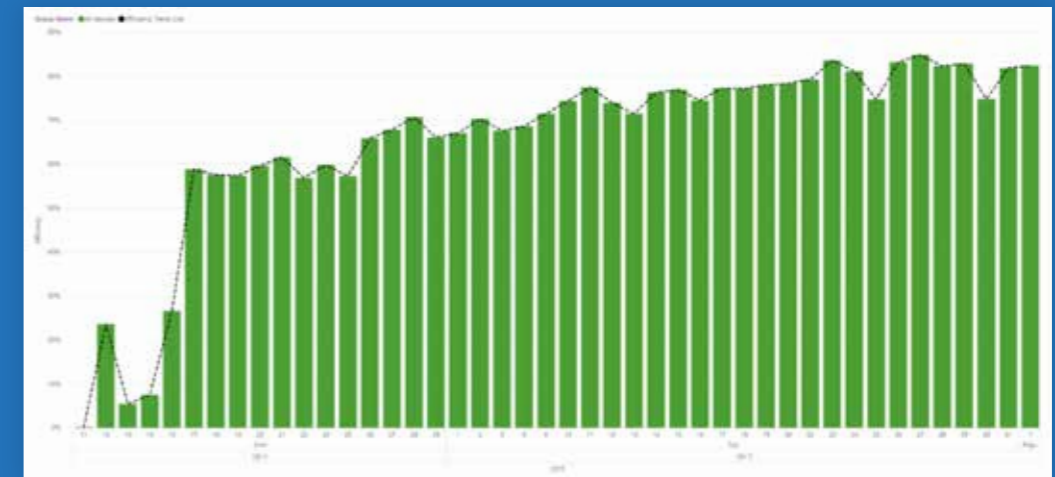
Following the implementation of the recommendations, efficiency increased across all device users and operations

TECHNOLOGY

LAYERS OF SAFETY

Blackline does not rely on any one particular alert or constant connectivity to deliver safety to the end user. Instead, we allow the organisation to use many features in combination, providing the user numerous layers of safety.

MANUAL ALERTS — triggered by the user to indicate an immediate need for assistance.

SOS latch
The SOS latch is an easy and obvious means of getting help when needed — the user pulls it to request help.

Silent alert
If configured, users can silently call for help by pressing the red latch for three seconds. This can be used in situations where a user may not want to draw attention to themselves but knows he/she needs help.

AUTOMATIC INCIDENT DETECTION — G7 solutions can be configured to automatically detect threats and call for help, even if the worker can't.

True Fall detection®
Blackline uses a combination of accelerometers and gyroscopes to detect three-dimensional acceleration and rotation of a body in motion. Using a patent pending algorithm, Blackline can routinely detect almost all real falls while having a very low false alarm rate. Managers can configure their fall detection sensitivity to accommodate work activities.

No-motion (man down) detection
Blackline accelerometers detect when a user is no longer moving as expected. Depending on the type of work being performed, the sensitivity and no-motion timer count-down can be adjusted to avoid false alarms.

Gas detection
Blackline offers several different gas alarms to notify the user of changes in the environment or to get the user help in the event of a serious exposure. Included real-time alerts include low-gas, high-gas, STEL, TWA, over-limit and under-limit alerts.

TIME-TRIGGERED SAFETY — Should someone have a safety event not covered by manual alerts, automatic incident detection features, or if a safety event were to occur outside of connectivity, time-triggered safety features make sure they're never left without help.
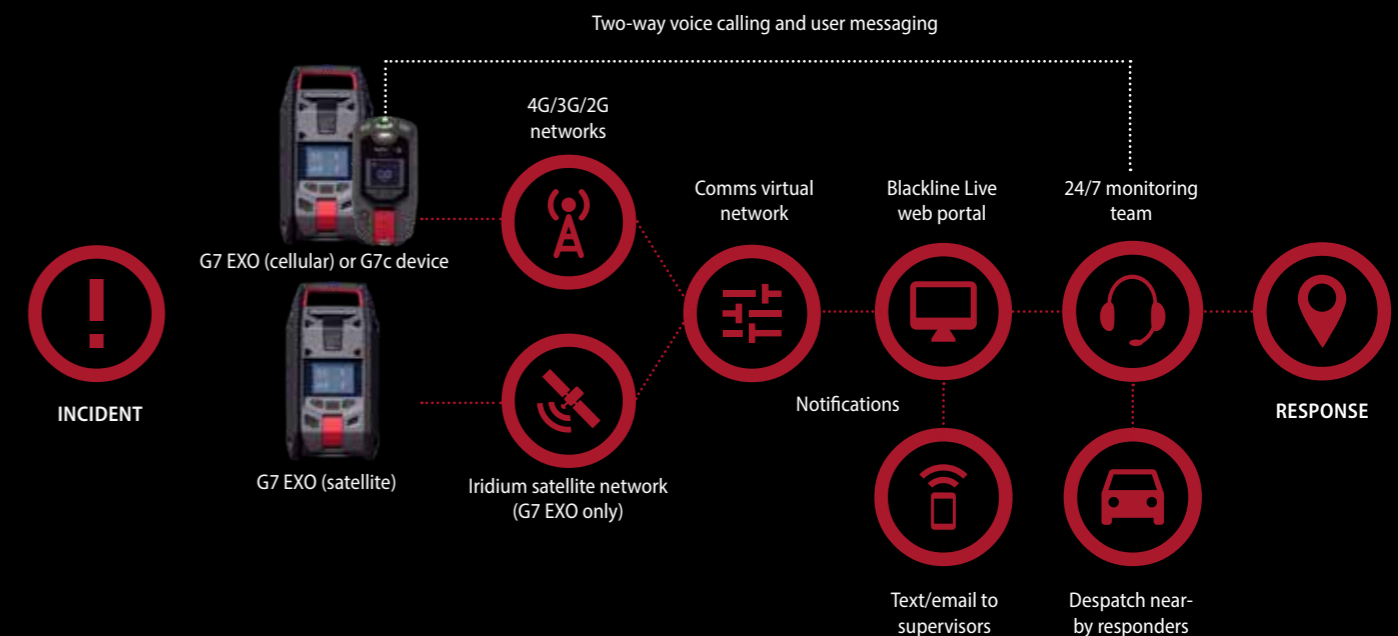
Server-side check-in
G7 features a check-in timer that is synchronised with the Blackline Safety Cloud. If a user fails to check in, the Blackline cloud will notify the live monitoring team, even if the user has left wireless coverage, their G7 battery is drained or if G7 is broken.

Server-side network timeout
As a final layer, we can configure G7 systems to trigger a network timeout alert if the G7 wearable unexpectedly stops communicating with the Blackline Safety Cloud. This is typically used in cases where users do not want to have regular check-ins, but may be working in low connectivity areas.

SYSTEM ARCHITECTURE

G7 devices communicate with the Blackline Safety Cloud using either 4G/3G/2G or Iridium satellite networks (G7 EXO only). Safety monitoring personnel and management teams make best use of the Blackline Live web portal for configuration, emergency response management and reporting.

Two-way voice calling and user messaging

4G/3G/2G networks

G7 EXO (cellular) or G7c device

Comms virtual network

Blackline Live web portal

24/7 monitoring team

INCIDENT

Notifications

RESPONSE

G7 EXO (satellite)

Iridium satellite network (G7 EXO only)

Text/email to supervisors

Despatch near-by responders

Connectivity light
On start up, G7 or G7 EXO's green connectivity light will flash while searching for an available mobile network — once a connection has been established to the Blackline Safety Cloud, G7/G7 EXO's log on is confirmed and the green light changes to solid. The connectivity light is the employee's confirmation that they are connected to the Blackline Safety Network. Should an interruption occur in communication with the network, the green light will begin to flash. G7 systems can also be configured to notify the user of this with an optional lost-link alarm.

TECHNOLOGY

WIRELESS COMMUNICATIONS

Communication protocol

G7c and G7 EXO feature bi-directional, asynchronous packet communications with the Blackline Safety Cloud through cellular and satellite wireless back haul networks. This protocol facilitates always-connected communication with mobile-originated or mobile-terminated packets. All critical packets feature server and device-side acknowledgment, supporting resending as may be required. Packets that are generated by the employee device that cannot be communicated due to a communications interruption are buffered and transmitted when the server connection is re-established.

4G/3G/2G wireless network
- Delivers 4G/3G/2G communications in over 100 countries with coverage on over 200 networks
- G7c features built-in 4G/3G/2G wireless communications
- Works out of the box, automatically connecting with supported wireless networks
- For 3G UMTS networks, the GSMA recommends mobile network operators adopt the MILENAGE authentication and key generation algorithm, the Kasumi confidentiality and integrity encryption algorithms and UTAK authentication

Employee-worn Blackline device packet communication is securely routed through the local 4G/3G/2G mobile network to Blackline's international telecom partner network via a secured VPN or similar connection. The Blackline Safety Cloud is connected to the international telecom partner network through an encrypted IPsec VPN.

G7 voice communications

For G7c and G7 EXO devices that are subscribed to a voice-enabled service plan, safety monitoring personnel are able to call a worker's device, which will auto-answer. Voice-calling is enabled through both a public switched telephone network or mobile network.

Satellite network
- Blackline partnered with Iridium Communications for satellite connectivity (G7 EXO only)
- Delivers connectivity in remote locations beyond 4G/3G/2G coverage

Mobile messaging, SMS and email

Alert profiles can be configured in Blackline Live to send a text message or email if a certain alert is received to specified individuals, such as supervisors.

PUSH-TO-TALK

G7c and G7 EXO devices feature optional push-to-talk (PTT) capability. Push-to-talk works out of the box and allows Blackline devices to function like a walkie-talkie. G7c device users and G7 EXOs in the same organisation and on the same channel are able to have two-way conversations with one another in real time. Since G7c and G7 EXO utilise cellular connectivity to transmit messages, unlike traditional radios, there is no limited transmission range. G7c and G7 EXO with PTT are intrinsically safe, and also reduce the number of devices an employee needs to wear or have on site and maintain.

PTT is an optional feature that can be added onto a service plan. Devices that have a PTT-enabled service plan have a "PTT Channel" option in the device menu. Each organisation has up to 100 user-selectable channels — only devices on the same channel are able to communicate, with the exception of *all call*. The all call channel allows a message to be sent to all PTT devices in an organisation — this channel is recommended for safety supervisors or managers. Devices on the receive only channel can only hear transmissions, and cannot transmit to other devices.

Single channel transmission

4G/3G data

G7c or G7 EXO device

All-call channel transmission

Cloud-hosted data management

Channel 7

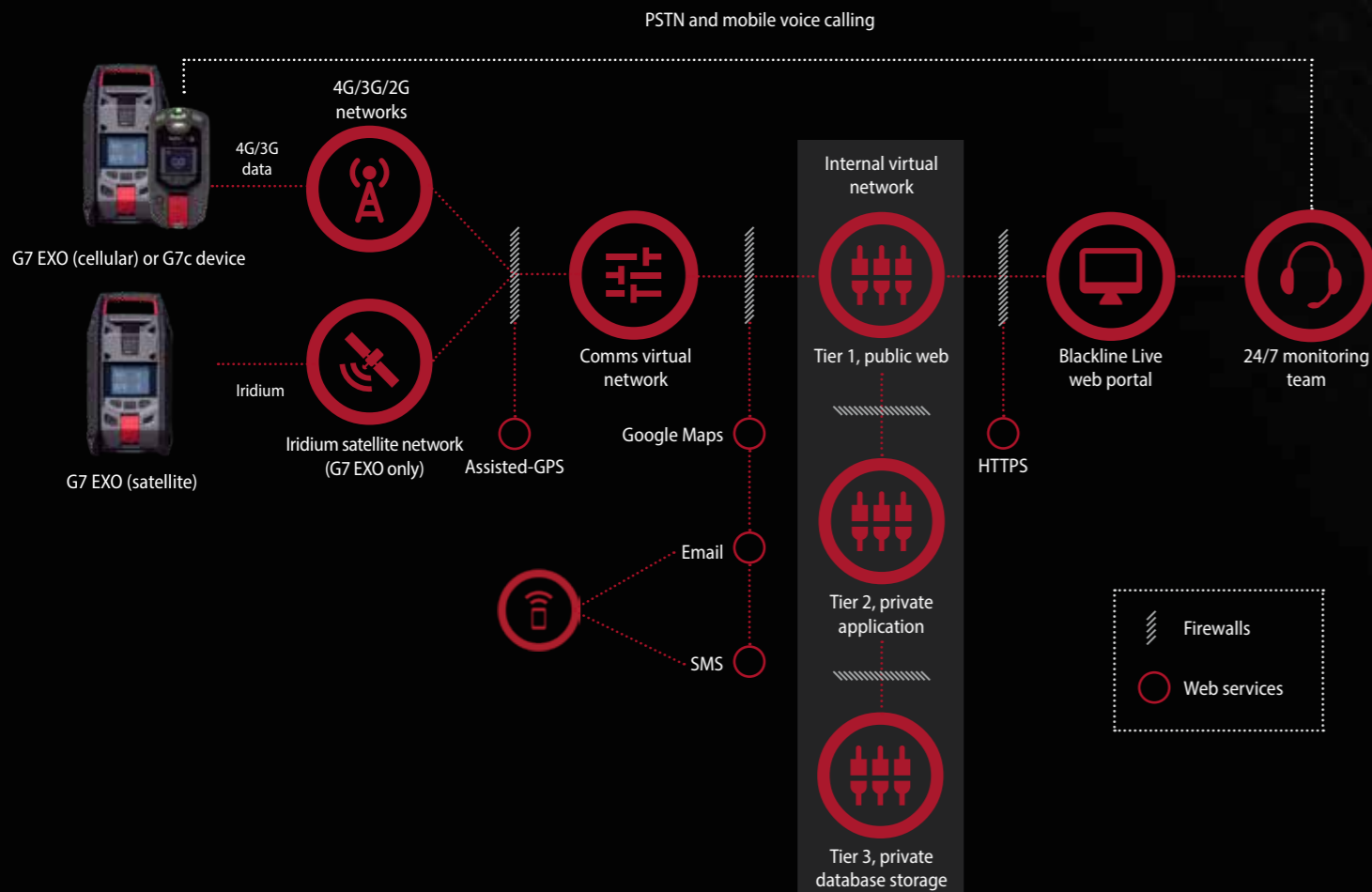**Channel 10**

Receive-only channel

TECHNOLOGY

THE BLACKLINE SAFETY CLOUD

The Blackline Safety Cloud is a safety Internet of Things (IoT) platform hosted by Amazon Web Services (AWS), a leading cloud hosting service provider. Businesses including 3M, BP, Adobe, Canon, GE, Alcatel Lucent, BMW, Hitachi, NASA, NASDAQ, National Bank of Canada, Philips, Samsung, SAP, Siemens and many others use AWS for hosting, virtualisation, data backup and other online services. Blackline uses modern cloud-based infrastructure technologies to build, maintain and innovate new software features that support our G7 employee wearables and G7 EXO area monitors.

Comprised of several layers, the overall Blackline ecosystem includes connected devices, communications networks, cloud-hosted infrastructure, user interfaces and live monitoring personnel. Blackline has separated its device communications in a standalone *comms virtual network*, fire-walling it from its application and data storage virtual network. This approach provides Blackline with the advantage of having detailed control over device communications traffic.

A second *internal virtual network* comprises our core safety monitoring application and infrastructure within AWS. This network communicates with employee-worn devices in the field through the comms network with a fire-walled separation layer in between. The internal virtual network incorporates three layers that are each fire-walled from the others.

PSTN and mobile voice calling

4G/3G/2G networks

4G/3G data

G7 EXO (cellular) or G7c device

Iridium

G7 EXO (satellite)

Iridium satellite network (G7 EXO only)

Assisted-GPS

Google Maps

Email

SMS

Comms virtual network

Internal virtual network

Tier 1, public web

Tier 2, private application

Tier 3, private database storage

HTTPS

Blackline Live web portal

24/7 monitoring team

Firewalls

Web services

USER DATA

User-device assignment
G7c devices can be assigned to users, linking them to the Blackline Safety Cloud. Employee contact information is stored in Blackline Live and available to monitoring personnel, supporting live emergency response and evacuation management. Equipment use reports are populated with a user-centric approach that accommodates team members who use multiple devices during the reporting period.

Device data
Blackline devices originate a selection of data that is keyed by the device unit ID and cartridge ID. IoT service subscriptions are related to devices through the device unit ID.

- Date and time (utilises 4G/3G/2G networks, GPS and Blackline Safety Cloud timing)
- GPS location and status information (number of satellites used in location computation, etc.)
- Closest Location Beacon ID
- Environmental gas readings
- Employee check-in requests
- Device status (hardware errors, sensor errors, calibration status, bump test status, etc.)

- Alarm and pending alarm notifications
- Alert notifications to supervisors and managers
- Peak readings after a gas detection alert
- Gas detection calibration and bump test results
- Messages to and from monitoring personnel
- Voice calling via two-way speakerphone built into G7c
- General device information (log on type, log off type, signal strength, battery level, etc.)

User-generated account data
- Organisation name and address
- Employee address book containing employee names, phone numbers, email addresses
- Documented emergency response protocol
- Location Beacon names, locations, addresses
- Floor plan layers
- Assignment of devices to employee contact cards stored within the address book
- G7 device configuration profiles (stores feature settings and thresholds)

- Alert profiles that define alert logic based upon G7 device settings, plus notification subscribers from the employee address book
- History of managed alerts and associated timestamps, locations, notations
- Voice calls recorded through Twilio service
- Voice calls recorded by our ARCs (Alarm Receiving Centres) are uploaded to AWS storage
- Two-way messaging

Software development APIs
Blackline offers two software development APIs — the first pushes individual connected device alerts to client infrastructure while a second API provides a REST interface with range of endpoints for managing alerts from receipt to resolution.

Push API asynchronously delivers alert messages to designated software infrastructure through an HTTPS POST to a target end-point uniform resource indicator (URI). Push API response expects a 200-level HTTP response and an md5 hash of the POST data. Monitoring service is in place should this service fail to achieve the expected response, triggering an escalation within Blackline's software operations team.

BLACKLINE PUSH: real-time alerts from the Blackline Safety Cloud pushed to a customer's existing system
BLACKLINE POLL: provides access to the last known location and alert information of a device

TECHNOLOGY

DATA POLICIES

Retention

Blackline Safety's policy regarding data retention is currently to retain all data indefinitely, unless otherwise requested by customers, or to comply with local regulations and requirements. We have the option to develop a customer-specific policy regarding data retention and welcome the opportunity to discuss further with clients.
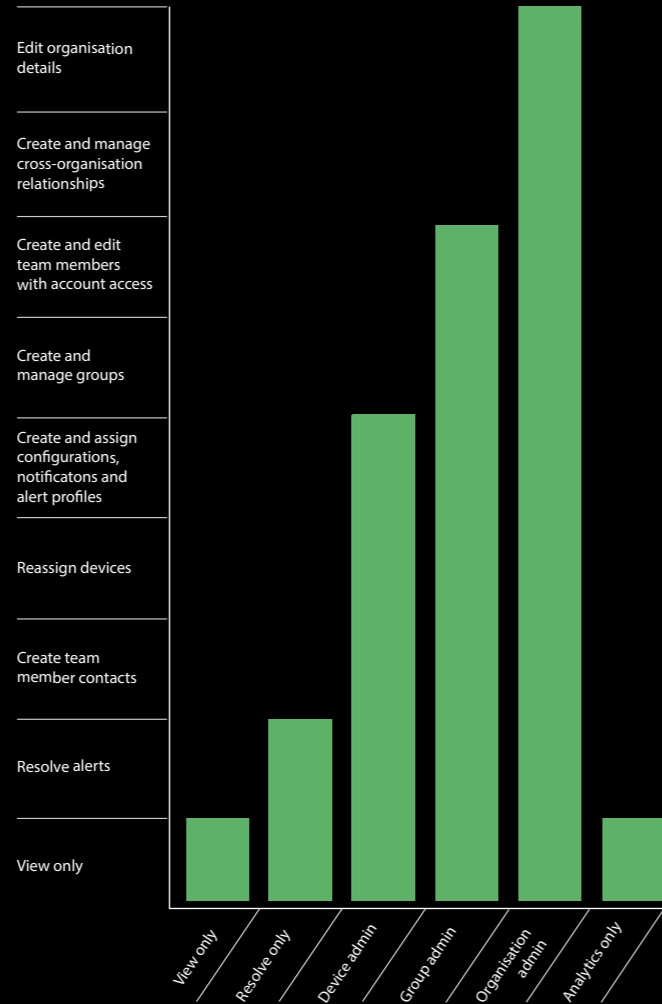
Backup

All data is backed-up regularly within AWS, using RDS backup and S3 archiving services.

User accounts and access controls

Organisations in Blackline Live can be configured to mimic the real world organisation of a business, allowing you to tailor user access depending on employee positions: employee, supervisor, administrator or monitoring personnel.

Roles are assigned on a group-by-group basis, defining how a team member can use the Blackline Live portal and what assets they have access to. The role a user has within a particular group will determine what they can do with that specific selection of devices — one user may be given view-only access for one group but group administration for another group. Each role level has a preset level of access to a group.

Chart y-axis labels (top to bottom): Edit organisation details; Create and manage cross-organisation relationships; Create and edit team members with account access; Create and manage groups; Create and assign configurations, notificatons and alert profiles; Reassign devices; Create team member contacts; Resolve alerts; View only

Chart x-axis labels: View only; Resolve only; Device admin; Group admin; Organisation admin; Analytics only

SECURITY

Human security

Blackline Safety employee roles that have access to client data are trained to take necessary precautions to assure that it is never released to unauthorised parties. Procedures are in place to validate the identity of individuals requesting information prior to release of customer information. Blackline performs background checks for all personnel with customer care or developer access within Blackline Live accounts.

Physical security

Blackline Safety has two office locations, Blackline Safety Corp. in Calgary Canada – our HQ – and Blackline Safety Europe in Colchester, UK. Both locations are secure, with 24/7 video surveillance in place.

Security and privacy

We're committed to providing our customers with world-leading safety monitoring technology. We take the care and management of client data very seriously and have put policies and procedures in place to safeguard such information. Confidential customer information includes employee names, contact information, location data, alerts, life-cycle data related to alert management, voice recordings, user-to-user messages, device configurations, emergency response protocols and floor plans.

G7 DEVICE DATA MANAGEMENT
COMMUNICATION, SCHEDULES AND REPORTING

Blackline Safety G7 devices monitor the safety of workers, detect dangers due to gas exposure and increase productivity through business intelligence tools and reporting. G7 manages the complexity of sensor inputs (accelerometers, gyros and gas sensors) and location technology while seamlessly communicating with the Blackline Safety Cloud and responding to inbound voice calls, messages, configuration changes and firmware updates.

Data-driven design
Data generated by G7 devices has three main purposes:

- Triggering an immediate emergency response process when the employee requires help
- Communicating data to provide compliance reporting
- Storing and compiling data for analysis and business intelligence

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Communication intervals

Three types of triggers prompt G7 devices to send data to the Blackline Safety Cloud:

- Alerts — G7c communicates data immediately and begins a high-resolution schedule that stores data every ten seconds and reports this data every two minutes for ten minutes.
- Low-level gas readings — For G7c, when environmental gas measurements are above a specified minimum threshold, locations and gas readings are collected and reported in the same manner as when there is an alert
- Scheduled events — data is regularly communicated for analytics and reporting every five minutes for G7c

---

Alerts
Falls, no-motion events, missed check-ins and high gas alerts are immediately communicated to the Blackline Safety Cloud for emergency response management. Manual SOS alerts are also communicated without delay. Alerts are typically delivered to Blackline Live in just a few seconds, empowering an immediate response.

While in alert G7c, automatically calculates its location every 10 seconds, storing this data and associated environmental gas samples. Every two minutes, G7c reports collected data to the Blackline Safety Cloud. If G7c triggers a new alert, the ten second timer restarts.

Scheduled events
When not in alert, G7 devices communicate a variety of data to the Blackline Safety Cloud using a location schedule. By default this reporting interval is five minutes for G7c. Location reports to the Blackline Safety Cloud include battery level, wireless signal and other details like gas readings when G7 is equipped with a gas sensor cartridge.

This combination of data provides situational awareness, allowing the monitoring team to dispatch responders to the correct location of an employee, as quickly as possible. Additionally, G7c devices can be located on demand within Blackline Live.

Server-synchronised employee check-in
G7 devices feature an optional employee check-in schedule that is configurable and separate from the location schedule. This schedule is synchronised between the G7 device and the Blackline Safety Cloud, enabling detection of a missed check-in, even when the G7 device unexpectedly stops communicating with the Blackline Safety Cloud.

Gas detection data management
While G7 devices use scheduled and unscheduled communications, they continuously monitor environmental gas readings every second for potential alerts and low-level gas readings.

Every gas reading contributes to the computation of a short-term exposure limit (STEL) and a time weighted average (TWA). Both of these readings are required by industry to monitor the accumulated health exposure of employees to environmental gases over time.

Blackline's G7 data management and communication to the Blackline Safety Cloud ensures that you have quick and easy access to the following data, each with date, time, employee name and location.

- Low-gas and high-gas alerts
- Sensor over and under limit alarms
- STEL and TWA alerts
- Peak reading while in alert
- Sensor failure

Historical data — analytics/reporting
G7 streams data to the Blackline Safety Cloud, supporting insightful analytics within Blackline Live. Using our Blackline Analytics software in Blackline Live, it's easy to analyse data trends to help identify areas with higher risk of safety events, including gas exposures, for precise hazard mitigation. Data can be used to compare groups within a company, the performance of supervisors, or a company against the industry average.

- Gas exposure reports over time, by device or by user
- Predictive analysis heat maps of potentially hazardous areas
- Compliance trends over time

Forensic data review
Should an incident occur in the field, Blackline Safety is able to wirelessly download detailed logs for the previous 22 hours worth of data for G7c. G7c supports detailed log retrieval through a USB connection. When a safety incident occurs and responders are on the scene, the G7 device should be turned off — contact Blackline Safety about retrieving detailed data logs.

Data storage — beyond wireless coverage
On some occasions when operating on the edge of cellular coverage, the communications link may drop due to lack of signal coverage. All data generated by G7 devices is stored in non-volatile memory and communicated to the Blackline Safety Cloud when the connection is re-established.

TECHNOLOGY

CARTRIDGES

Blackline Safety is the only gas detection manufacturer to offer plug-and-play cartridges that deliver unparalleled configuration flexibility, supported by a broad range of gas sensors. Reconfiguring and redeploying a G7 EXO or G7 wearable with new sensors is easy, and future-proofs your investment.

Cartridges enable one device to support nearly any configuration with a similar cartridge change. Further, cartridges eliminate device downtime associated with a failed sensor or pump. Replacing a cartridge with a new one takes just a few seconds.

- Standard (no-gas) Cartridge
- Single-gas Diffusion Cartridge with a choice of one gas sensor
- Multi-gas Diffusion Cartridge with a choice of two to four gas sensors*
- Multi-gas Pump Cartridge with a choice of one to four gas sensors*

Can detect up to five gases when configured with a COSH sensor

Standard Sensors
- Hydrogen sulphide (H₂S)
- High-range hydrogen sulphide (H₂S)
- Flammable (LEL-MPS)
- Flammable (LEL-infrared)
- Oxygen (O₂)
- Carbon monoxide (CO)
- High-range carbon monoxide (CO)
- Hydrogen-resistant (CO-H)
- Sulphur dioxide (SO₂)

Premium Sensors
- Ammonia (NH₃)
- High-range ammonia (NH₃)
- Chlorine (Cl₂)
- Chlorine dioxide (ClO₂)
- Carbon dioxide (CO₂)
- Hydrogen cyanide (HCN)
- Hydrogen (H₂)
- Ozone (O₃)
- Nitrogen dioxide (NO₂)
- Photoionisation (PID) ppm
- CO+H₂S (COSH)

CONFIGURATION MODES

Configuration modes enable your team members to tailor G7 operation during daily work. Whether it's a confined space that will be entered or a pipeline that is going to be inspected, it's easy to tailor device operation for the situation at hand.

Pre-entry mode (Multi-gas Pump Cartridge only)

This mode is used before entering a space that could potentially contain dangerous gas. You can customise how your G7 device will behave when it detects high levels of gas.

Leak check mode (all cartridges)

This mode is used when performing leak inspections. Gas alarm options can be configured to address environmental needs.

SCBA mode (all cartridges)

This mode is used when entering an area known to have high gas levels and the worker is wearing a self-contained breathing apparatus (SCBA). This mode is configurable to alter gas alarm and safety alert behaviours as required for each scenario.

High-risk mode (all cartridges)

This mode is used for general high-risk situations, such as when traveling through known dangerous areas. If desired, this mode can initiate more frequent G7 check-ins and modified safety monitoring functionality.

LEL-MPS

Blackline Safety has partnered with NevadaNano, the producer of the world's first MPS™ Flammable Gas Sensor – the most accurate sensor for the greatest number of flammable gases that eliminates issues with traditional sensors. With a five year life span, this revolutionary Molecular Property Spectrometer (MPS) sensor is immune to poisoning and features a built-in fail-safe design that will alert the user if the sensor isn't functioning properly.

G7 devices equipped with an LEL-MPS sensor linearly and accurately detect the true lower explosive limit of individual gases and mixtures, including:

■ Hydrogen	■ Butane	■ Xylene
■ Methane	■ Pentane	■ Ethylene
■ Ethane	■ Hexane	■ Propylene
■ Propane	■ Toluene	■ Isopropanol

The Molecular Property Spectrometer (MPS) Flammable Gas Sensor's transducer is a micro-machined membrane with an embedded Joule heater and resistance thermometer. The MEMS transducer is mounted on a PCB and packaged inside a rugged enclosure open to ambient air. Delivering a TrueLEL(™), the presence of a flammable gas causes changes in the thermodynamic properties of the air/gas mixture that are measured by the transducer. Sensor data is processed by patent-pending algorithms to report accurate concentration and classify the flammable gas.
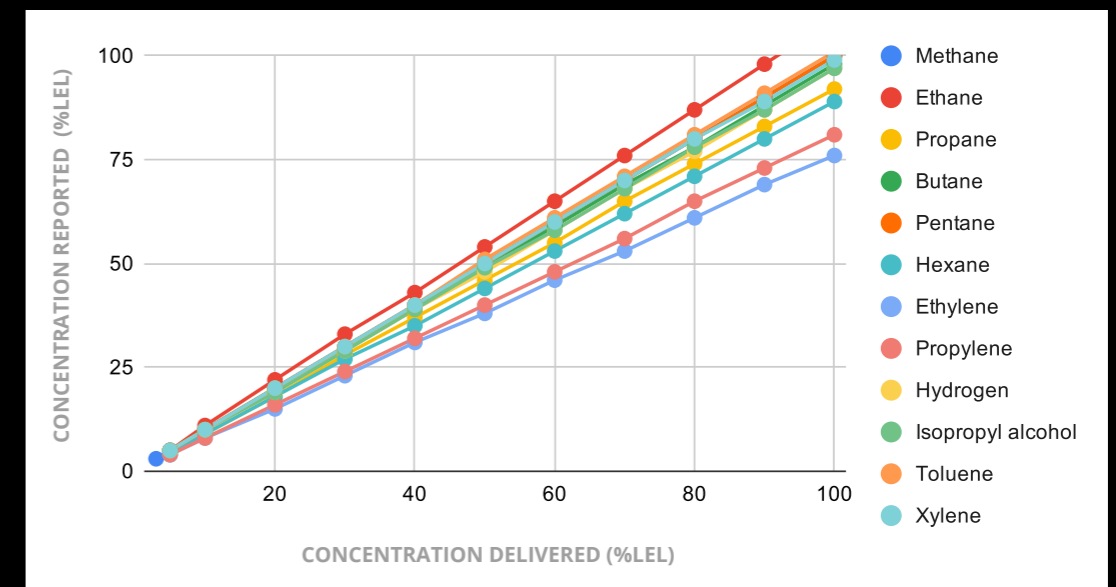
*Reported vs. delivered readings for twelve common flammable gases**

Note: for inert environments, Blackline recommends using our LEL-IR gas sensor

For more information on the accuracy of additional gases, contact your Blackline Safety representative

TECHNOLOGY

AREA MONITORING TECHNOLOGY

Connectivity
On start up, G7 EXO automatically connects to cellular networks in over 100 countries, with the option to make use of the Iridium Satellite Network for true global coverage.

- With cellular and optional satellite connectivity (G7 EXO only), there is no limit to the number of devices that can link together and connect to the network.
- G7 EXO works alongside G7 wearable devices, streaming data through cellular or satellite networks through the Blackline Safety Cloud to the Blackline Live portal.
- Teams can configure their fleet operations in Blackline Live, and monitoring personnel can use the portal tools to manage and respond to alerts generated by G7 EXO units in the same way as G7 wearables.

Gas detection
G7 EXO features 360 degree gas detection based on its unique gas path that enables free gas diffusion from any direction. By design, area monitors are deployed at specific points that enable businesses to understand the gas reading in that area. 360 degree detection makes for a faster response to gas released in the area.

- G7 EXO is compatible with the same single-gas and multi-gas diffusion sensor cartridges as G7 wearable monitors
- Cartridges can be swapped out in minutes should a different gas configuration be required, or if a sensor failed or reached the end of its serviceable life.

Flexible mounting options
G7 EXO can be mounted or securely placed anywhere it is needed with a range of highly-configurable options, including:

- A 0.3m tripod
- A 1.0m tripod
- A magnetic mount
- A rail/scaffold mount

Interface ports
Easily integrate G7 EXOs with other functions and operations of a facility to streamline operations and optimise responses during an emergency. When safety notifications are triggered on G7 EXO, A/B interface ports act as switches by sending ON or OFF signals to connected accessories.

- If a high gas threshold is reached, the A port will turn ON. Any device connected to the A port will be active The port will turn OFF when the alert is muted or resolved on G7 EXO.
- If a low gas threshold is reached, the B port will turn ON. Any device connected to the B port will be active. The port will turn OFF when the alarm is dismissed or resolved on G7 EXO.

Battery and charging options
G7 EXO features industry-leading battery life of over 100 days under standard diffusion operating conditions with the option to run indefinitely using intrinsically safe battery extenders, including:

- Intrinsically-safe trickle charger
- Solar panel
- Fast charger
- Optional replacement batteries*

Weatherproofing
Designed to take anything you or mother nature can throw at it, G7 EXO has been tested by third-party labs in extreme conditions to prove its performance.

- Wind speed: 165 km/h (103 m/h)
- Freezing rain: 30 km/h (19 m/h)
- Snow: -20º C (-4ºF)

Swapping G7 EXO batteries must be done in a non-hazardous (non-IS) environment

LOCATION TECHNOLOGY

GPS
GPS technology works well when outdoors and is an important feature of Blackline's services. Blackline Safety assists the GPS system embedded within G7c and G7 EXO devices. Long-term GPS satellite orbit models are downloaded from u-blox and pushed to G7 devices in the field. Assisted-GPS technology improves the time to compute the first location after waking up the GPS radio, and reduces the satellite signal acquisition sensitivity.

Location Beacons
GPS satellite signals can be weak and subject to reflection from large objects such as buildings and steelwork. Reflected GPS satellite signals can cause the precision of reported GPS locations to decrease within a building. Concrete and steel can additionally block GPS signals or cause a lack of sufficient satellite signals to compute a location.

Blackline Location Beacons require no cabling, are intrinsically safe (ATEX certified) and can be installed inside and around large buildings, process facilities, pressure vessels, pipework and tanks. When a G7 detects the presence of a nearby beacon, it reports that beacon ID and its location to the Blackline Safety Cloud where beacon locations have been recorded. Location Beacons are configurable with power levels that deliver 5m to 50m positioning resolution, when spaced accordingly. Within Blackline Live, employee locations are mapped on a Google Map at the pre-determined location of the identified beacon.

Floor/site plans are optionally imported into the Blackline Live account and provides additional context regarding the employee's location. Floor plans are provided by the end customer and imported as user data into the Blackline Safety Cloud. For multistory buildings and structures, floor plans can be assigned to layers that enable employee locations to be mapped on the correct floor level.

Over-the-air configuration changes
Blackline devices are configurable over-the-air. Changes are easy to make in Blackline Live through the device configuration page, and can be pushed to a single device, group or an entire fleet.

Over-the-air firmware updates
G7 firmware updates are automatically sent, verified and committed to devices. No user interaction is needed and an update completes in about five minutes, ensuring all devices are operating with the latest features.

Blackline Safety's G7 Builder is a website for creating Part Numbers (SKUs), assembling prices and building quotations.
Note: "SKU" (Stock Keeping Units) is a North American term, that you will see used in the G7 Builder site. In Europe, we normally refer to "Part Number". Building Blackline Safety part numbers is available to all website visitors, while viewing pricing and generation of quotations is for registered users only.

Login
To generate a Part Number (SKU) configuration, create a quote or reference product and service pricing, navigate to
build.blacklinesafety.com

Public/guest users:
- Configure a G7 system and view its corresponding Part Numbers (SKUs)

Note: interested in seeing pricing or a more detailed version of your quote? Ask your Blackline Safety Representative for more information or to become a registered user.

Registered users:
- Can build Can build Part Numbers (SKUs) and generate quotes for G7 devices, accessories and services
- Can see full pricing and the total of the order (based on access and region)
- Can search and view pricing for Blackline products and services
- View, edit and delete past quotes and orders
- Print pre-formatted quotes

Customise your system
Create a quote from our "commonly ordered" templates or create a custom order from scratch by configuring the modular combinations of our offerings.

1. From the home page, start by selecting *Generate SKU/Quote*
2. On *add product + service page*, use the drop-down menus to select the options that address your needs
3. To add accessories or specific gas sensors, select *add accessories and gas*
4. To save the quote for future reference, select *save as draft*
5. Once happy with the quote form, select *next*
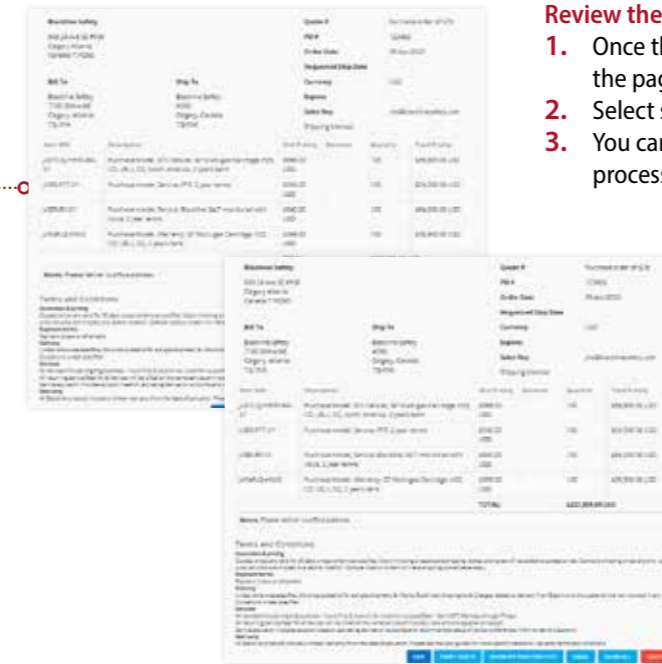
Review the quote
1. Once the quote has been generated, complete the lower half of the page to request the formal quote from Blackline
2. Select save to *send* the message
3. You can also select *edit* to adjust the quote or *restart* to start the process again
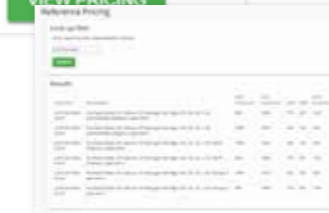
Price search
Need a quick price check? The View Pricing page allows you to quickly view all pricing information in the correct currency for your region.

1. To search the price of a certain Part Number (SKU), click *view pricing* from the home page
2. Enter a search word and select *search*
3. Prices for all Part Numbers (SKUs) that begin with the search word or term will appear with all associated pricing

Note: some prices are for reference only, users may not be able to purchase these items

Need additional information?
Please contact Blackline Safety Europe at eusales@blacklinesafety.com for insights into system capabilities, examples of solutions best suited to your industry and answers to any of your questions.

G7: Everything you need. Nothing you don't.

THE ONLY SAFETY SOLUTIONS THAT WORK AS HARD AS YOU DO.

Blackline Safety G7 devices and service solutions are completely configurable to address the needs of nearly every industry, application and scenario.

We know our customers also have specific needs when it comes to financing their systems. Whether your business has available capital expenditure budget for a purchase of products and services, or you prefer to use an operational expense budget and take advantage of our leasing programme, we have an acquisition option for you.

G7 BUYING OPTIONS*

G7 PURCHASE | No monthly charges

Take advantage of your capital purchase budget through a G7 purchase — pay for hardware and system access upfront, option to add yearly service fee for additional services offered by Blackline Safety.

£638*
Due upfront

G7 CLASSIC | Get a low upfront cost

Pay for the G7 device — lease the cartridge from Blackline, providing a lifetime warranty through the service contract. Additional cartridge service plan required.

£355*
Due upfront

G7 LEASE | Pay nothing upfront

Get a low monthly payment, spread over a four year warranty period. Record your Blackline lease as an operational expense, without touching your capital purchase budget.

£0
Due upfront

System Access — features included in all service plans

- Over-the-air configurations & device updates
- Real-time compliance dashboard
- Powerful analytics and reporting interface

- Cloud-hosted platform with 99.9% uptime
- Base analytics reports: real-time compliance, device logs, usage and compliance, events and fleet status, gas exposure

Buying options comparison

		PURCHASE	CLASSIC	LEASE
G7c device	Additional service plan required?	No	Yes	No
	Minimum monthly payment	£0/month	£15/month (System Access plus LEL/O₂/ CO/H₂S cartridge cost)	£24/month (System Access plus G7 device with LEL/O₂/CO/H₂S)
Ownership	Base G7 unit	Customer	Customer	Blackline Safety**
	G7 sensor cartridge	Customer	Blackline Safety	Blackline Safety**
Warranty	Base G7 unit	2 years or 3 years	Infinite with active service plan	Full lease term
	G7 sensor cartridge	2 years or 3 years	Infinite with active service plan	N/A
	Extended warranty	Two year option available	Not applicable	Not applicable
	Lost/stolen coverage	No	No	2% of total lease value
System Access	See *Base Features* above	Included in initial 2 year term***	Included with any service plan	Included with any G7 LEASE
Optional service plans	*Self-monitored plan* (real-time alerting and two-way voice communication)	£21/month	£15/month	£17/month
	Blackline 24/7 monitored plan (real-time alerting, two-way voice communication and 24/7 live monitoring)	£32/month	£26/month	£29/month
	Push-to-talk radio functionality	£6/month	£6/month	£6/month

*All pricing shown for G7c device with LEL/O₂/CO/H₂S multi-gas cartridge, purchase price based on a 2 year term.
Buyout option available. * System Access for £72/year after initial term.

G7 PURCHASE

1 — Cartridge

SELECT A CARTRIDGE

Start by choosing a Standard, Single-gas, Multi-gas diffusion or Multi-gas pump cartridge. You only need to fill out the information for the cartridge you select. This information will be used to build your hardware and service part number.

For example: Q-HIMO

SINGLE-GAS CARTRIDGE

NH_3	A
High-range NH_3	B
CO_2	C
COSH	D
O_3	E
H_2	G
H_2S	H
High-range H_2S	J
NO_2	K
Cl_2	L
CO	M
HCN	N
O_2	O
CO-H	R
SO_2	S
High-range CO	T
PID	V
ClO_2	W

STANDARD CARTRIDGE
No gas detection

Z

S-▯

MULTI-GAS/PUMP CARTRIDGE

NH_3	A	A	NH_3
High-range NH_3	B	B	High-range NH_3
CO_2	C	D	COSH
O_3	E	E	O_3
H_2	G	G	H_2
H_2S	H	H	H_2S
High-range H_2S	J	J	High-range H_2S
NO_2	K	K	NO_2
Cl_2	L	L	Cl_2
CO	M	M	CO
HCN	N	N	HCN
CO-H	R	R	CO-H
SO_2	S	S	SO_2
High-range CO	T	T	High-range CO
PID	V	W	ClO_2
ClO_2	W	X	None
None	X		

		O	O_2
		X	None

LEL-MPS	F
LEL-IR	I
None	X

Diffusion	Q
Pump*	P

▯–▯▯▯▯

Great! Now write these four letters in alphabetical order

▯–▯▯▯▯

→ CARTRIDGE INFO ←

2 — Hardware

BUILD YOUR G7 PART NUMBER

Use your cartridge info from Step 1 to build a final hardware part number.

For example: J-G7C-Q-HIMO-EU2-2Y

EU	Europe (3G/2G)
EU2	Europe (4G/2G)

J-G7C - [CARTRIDGE INFO (FROM STEP 1)] - ▯ - 2Y (WARRANTY & SYSTEM ACCESS)

Three year term available, refer to build.blacklinesafety.com website for pricing

*Not all gas sensor options are compatible with the pump cartridge. Refer to build.blacklinesafety.com for more information.

3 — Price

CALCULATE YOUR PRICE

Use your choices from above to calculate your service price.

DEVICE + CARTRIDGE

Standard	£391
Single-sensor	£493
Multi 2-sensor	£542
Multi 3-sensor	£590
Multi 4-sensor	£637
Multi 2-sensor Pump*	£686
Multi 3-sensor Pump*	£734
Multi 4-sensor Pump*	£782

SENSORS

NH_3 (A)	£72
High-range NH_3 (B)	£144
CO_2 (C)	£288
COSH (D)	£72
O_3 (E)	£144
LEL-MPS (F)	£0
H_2 (G)	£72
H_2S (H)	£0
LEL-IR (I)	£0
High-range H_2S (J)	£0
NO_2 (K)	£72
Cl_2 (L)	£72
CO (M)	£0
HCN (N)	£72
O_2 (O)	£0
CO-H (R)	£0
SO_2 (S)	£0
High-range CO (T)	£144
PID (V)	£504
ClO_2 (W)	£72

▯ + ▯ = TOTAL PRICE /UPFRONT GBP

*Not all gas sensor options are compatible with the pump cartridge. Refer to build.blacklinesafety.com for more information.

4 — Optional service

PUSH-TO-TALK

£6/month

Use G7 like a walkie-talkie with 100 channels and global coverage, 250 users per channel, including all-calls during an emergency.
PART NUMBER: J-SER-PTT-2Y
£72 invoiced annually, two year term

REAL-TIME SAFETY

Self-monitored

£21/month

Monitor your team's safety by adding real-time alerts to Blackline Live and two-way voice calling to the G7c.
PART NUMBER: J-SER-SV-2Y
£252 invoiced annually, two year term

OR

Blackline 24/7 monitored

£32/month

Blackline Safety's partner ARCs will respond to your team's alerts through voice calls to the G7c. Average response time is less than 60 seconds.
PART NUMBER: J-SER-BV-2Y
£384 invoiced annually, two year term

Extended warranty available
Visit build.blacklinesafety.com for more information

All prices are an estimate — for a formal quote please use our build.blacklinesafety.com website or ask your local Blackline Safety distributor.

G7 CLASSIC

1 — Cartridge

SELECT A CARTRIDGE

Start by choosing a Standard, Single-gas, Multi-gas diffusion or Multi-gas pump cartridge. You only need to fill out the information for the cartridge you select. This information will be used to build your hardware and service part number.
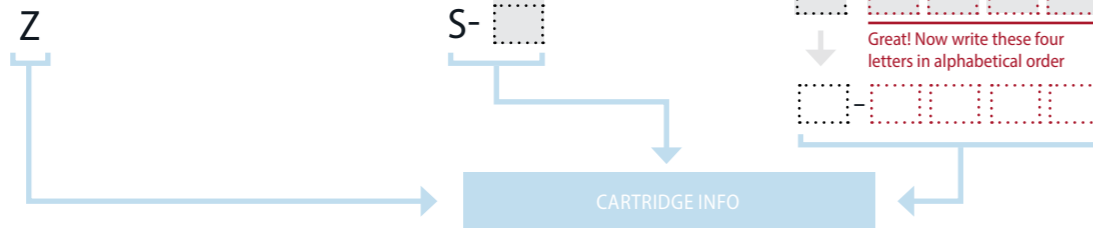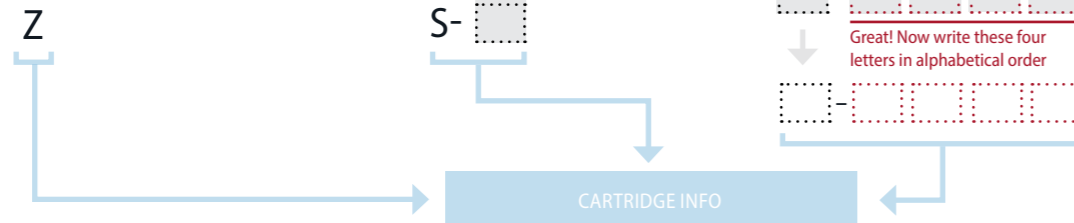
For example: Q-HIMO

SINGLE-GAS CARTRIDGE

NH_3	A
High-range NH_3	B
CO_2	C
COSH	D
O_3	E
H_2	G
H_2S	H
High-range H_2S	J
NO_2	K
Cl_2	L
CO	M
HCN	N
O_2	O
CO-H	R
SO_2	S
High-range CO	T
PID	V
ClO_2	W

STANDARD CARTRIDGE
No gas detection

Z

S-

MULTI-GAS/PUMP CARTRIDGE

NH_3	A	A	NH_3
High-range NH_3	B	B	High-range NH_3
CO_2	C	D	COSH
O_3	E	E	O_3
H_2	G	G	H_2
H_2S	H	H	H_2S
High-range H_2S	J	J	High-range H_2S
NO_2	K	K	NO_2
Cl_2	L	L	Cl_2
CO	M	M	CO
HCN	N	N	HCN
CO-H	R	R	CO-H
SO_2	S	S	SO_2
High-range CO	T	T	High-range CO
PID	V	W	ClO_2
ClO_2	W	X	None
None	X		
		O	O_2
		X	None

LEL-MPS	F
LEL-IR	I
None	X

Diffusion	Q
Pump*	P

▢ – ▢ ▢ ▢ ▢

Great! Now write these four letters in alphabetical order

▢ – ▢ ▢ ▢ ▢

CARTRIDGE INFO

*Not all gas sensor options are compatible with the pump cartridge. Refer to build.blacklinesafety.com for more information.

2 — Hardware

BUILD YOUR G7 PART NUMBER

Use your cartridge info from Step 1 to build a final hardware part number. **For example: G7C-Q-HIMO-EU**

Cellular	C

EU	Europe (3G/2G)
EU2	Europe (4G/2G)

G7 ▢ – CARTRIDGE INFO (FROM STEP 1) – ▢

3 — Service

System Access	XX
System Access + PTT	XXP
Self-monitored (no voice)	SX
Self-monitored (no voice) + PTT	SXP
Self-monitored + voice	SV
Self-monitored + voice + PTT	SVP
Blackline 24/7 monitored (no voice)	BX
Blackline 24/7 monitored (no voice) + PTT	BXP
Blackline 24/7 monitored + voice	BV
Blackline 24/7 monitored + voice + PTT	BVP

BUILD YOUR PART NUMBER

Use your cartridge info from Step 1 to build a service part number.

For example: SER-BV-Q-HIMO-1Y

1Y	1 year
2Y	2 years
3Y	3 years
4Y	4 years
5Y	5 years

SER - ▢ - CARTRIDGE INFO (FROM STEP 1) - ▢

4 — Price

CALCULATE YOUR PRICE

Use your choices from above to calculate your service price.

£355
G7c device

CARTRIDGE

Standard	£72
Single-sensor	£108
Multi 2-sensor	£132
Multi 3-sensor	£156
Multi 4-sensor	£180
Multi 2-sensor Pump*	£204
Multi 3-sensor Pump*	£228
Multi 4-sensor Pump*	£252

SENSORS

NH_3 (A)	£36
High-range NH_3 (B)	£72
CO_2 (C)	£144
COSH (D)	£36
O_3 (E)	£72
LEL-MPS (F)	£0
H_2 (G)	£36
H_2S (H)	£0
LEL-IR (I)	£0
High-range H_2S (J)	£0
NO_2 (K)	£36
Cl_2 (L)	£36
CO (M)	£0
HCN (N)	£36
O_2 (O)	£0
CO-H (R)	£0
SO_2 (S)	£0
High-range CO (T)	£72
PID (V)	£252
ClO_2 (W)	£36

SERVICE

System Access (XX)	Incl.
System Access + PTT (XXP)	£108
Self-monitored (SX)	£108
Self-monitored + PTT (SXP)	£192
Self-monitored + voice (SV)	£180
Self-monitored + voice + PTT (SVP)	£264
Blackline 24/7 monitored (BX)	£252
Blackline 24/7 monitored + PTT (BXP)	£324
Blackline 24/7 Monitored + voice (BV)	£312
Blackline 24/7 Monitored + voice + PTT (BVP)	£384

▢ + ▢ + ▢ = TOTAL PRICE
/YEAR GBP

Multi-year service discounts For multi-year service plans, calculate your service price by multiplying your yearly price from above by number of service years, and then apply your discount as follows — 2% off for two years, 3% for three years, 4% for four years and 5% for five years.

*Not all gas sensor options are compatible with the pump cartridge. Refer to build.blacklinesafety.com for more information.

All prices are an estimate — for a formal quote please use our build.blacklinesafety.com website or ask or your local Blackline Safety distributor.

G7 LEASE

1— Cartridge

SELECT A CARTRIDGE

Start by choosing a Standard, Single-gas, Multi-gas diffusion or Multi-gas pump cartridge. You only need to fill out the information for the cartridge you select. This information will be used to build your hardware and service part number.
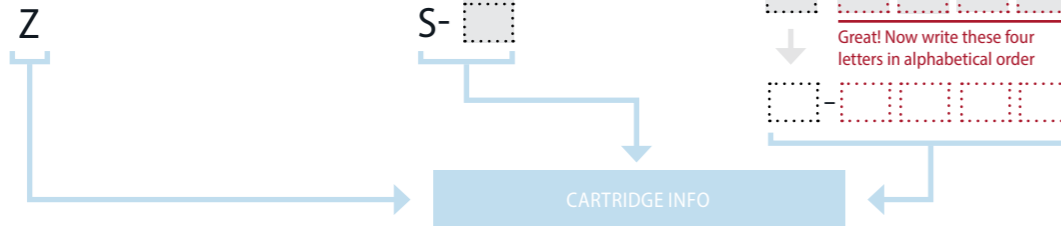
For example: Q-HIMO

SINGLE-GAS CARTRIDGE

NH_3	A
High-range NH_3	B
CO_2	C
COSH	D
O_3	E
H_2	G
H_2S	H
High-range H_2S	J
NO_2	K
Cl_2	L
CO	M
HCN	N
O_2	O
CO-H	R
SO_2	S
High-range CO	T
PID	V
ClO_2	W

STANDARD CARTRIDGE
No gas detection

Z

S- ⬚

MULTI-GAS/PUMP CARTRIDGE

NH_3	A	A	NH_3
High-range NH_3	B	B	High-range NH_3
CO_2	C	D	COSH
O_3	E	E	O_3
H_2	G	G	H_2
H_2S	H	H	H_2S
High-range H_2S	J	J	High-range H_2S
NO_2	K	K	NO_2
Cl_2	L	L	Cl_2
CO	M	M	CO
HCN	N	N	HCN
CO-H	R	R	CO-H
SO_2	S	S	SO_2
High-range CO	T	T	High-range CO
PID	V	W	ClO_2
ClO_2	W	X	None
None	X		
		O	O_2
		X	None

LEL-MPS	F
LEL-IR	I
None	X

Diffusion	Q
Pump*	P

⬚ - ⬚ ⬚ ⬚ ⬚

Great! Now write these four letters in alphabetical order

⬚ - ⬚ ⬚ ⬚ ⬚

⬇

CARTRIDGE INFO

*Not all gas sensor options are compatible with the pump cartridge. Refer to build.blacklinesafety.com for more information.

2 — Hardware/service

System Access	XX
System Access + PTT	XXP
Self-monitored (no voice)	SX
Self-monitored (no voice) + PTT	SXP
Self-monitored + voice	SV
Self-monitored + voice + PTT	SVP
Blackline 24/7 monitored (no voice)	BX
Blackline 24/7 monitored (no voice) + PTT	BXP
Blackline 24/7 monitored + voice	BV
Blackline 24/7 monitored + voice + PTT	BVP

BUILD YOUR LEASE PART NUMBER

When you're finished it should look something like this:
CMP-BV-G7C-Q-HIMO-EU-4Y

Cellular	C

EU	Europe (3G/2G)
EU2	Europe (4G/2G)

CMP - ⬚ - **G7** ⬚ - CARTRIDGE INFO (FROM STEP 1) - ⬚ - **4Y**

3 — Price

CALCULATE YOUR LEASE PRICE

Use your choices from Step 2 to calculate your lease price per month.

Your G7 device costs are included in the lease cost.

Four year standard lease term

CARTRIDGE

Standard	£15
Single-sensor	£18
Multi 2-sensor	£20
Multi 3-sensor	£22
Multi 4-sensor	£24
Multi 2-sensor Pump*	£26
Multi 3-sensor Pump*	£28
Multi 4-sensor Pump*	£30

SENSORS

NH_3 (A)	£3
High-range NH_3 (B)	£6
CO_2 (C)	£12
COSH (D)	£3
O_3 (E)	£6
H_2 (G)	£3
LEL-MPS (F)	£0
H_2S (H)	£0
LEL-IR (I)	£0
High-range H_2S (J)	£0
NO_2 (K)	£3
Cl_2 (L)	£3
CO (M)	£0
HCN (N)	£3
O_2 (O)	£0
CO-H (R)	£0
SO_2 (S)	£0
High-range CO (T)	£6
PID (V)	£21
ClO_2 (W)	£3

SERVICE

System Access (XX)	Incl.
System Access + PTT (XXP)	£10
Self-monitored (SX)	£10
Self-monitored + PTT (SXP)	£17
Self-monitored + voice (SV)	£16
Self-monitored + voice + PTT (SVP)	£24
Blackline 24/7 monitored (BX)	£23
Blackline 24/7 monitored + PTT (BXP)	£29
Blackline 24/7 Monitored + voice (BV)	£28
Blackline 24/7 Monitored + voice + PTT (BVP)	£35

⬚ **+** ⬚ **+** ⬚ **=** **TOTAL PRICE**
/MONTH GBP

*Not all gas sensor options are compatible with the pump cartridge. Refer to build.blacklinesafety.com for more information

All prices are an estimate — for a formal quote please use our *build.blacklinesafety.com* website or ask or your local Blackline Safety distributor.

G7 ACCESSORIES

Location Beacons

Deployed around a facility, beacons provide an additional positioning signal to accurately map the locations of employees and alerts. Location beacons can be used with floor plans that are uploaded on top of the Google map inside Blackline Live. Location Beacons are ATEX certified and require no cabling.

PART NUMBER	PRODUCT DETAILS	LEASE
CMP-BEACON-EU-4Y	G7 LEASE, Hardware, Location Beacon, EU, 4 year	£3 /mo

PART NUMBER	PRODUCT DETAILS	PURCHASE
BEACON-EU	Blackline Location Beacon, Europe	£105

G7 Dock

G7 Dock delivers the means to efficiently calibrate, bump test and charge G7 devices. Never run an Ethernet cable to a docking station again — G7 devices automatically manage bump tests, calibrations and upload data to Blackline Live, powering the live compliance dashboard and Blackline Analytics.

PART NUMBER	PRODUCT DETAILS	LEASE
CMP-DOCK-P-EU-4Y	G7 LEASE, G7 Dock, Europe, 4 year term	£13 /mo

PART NUMBER	PRODUCT DETAILS	PURCHASE
DOCK-P-EU	G7 Dock, Europe	£549

G7 PowerPack

PowerPack is attached to G7 wearables to help G7's battery last longer during a shift. PowerPack doubles a G7's typical battery life to (up to 36 hours at normal operation).

PART NUMBER	PRODUCT DETAILS	PURCHASE
ACC-G7-PWRPAK	Accessory, G7 Power Pack and Clip	£85

G7 Intrinsically Safe Screen Protector

PART NUMBER	PRODUCT DETAILS	PURCHASE
ACC-G7-SP-10	Accessory, Bag of 10 Intrinsically Safe G7 Screen Protectors, Front	£73

G7 ACCESSORY KITS

PART NUMBER	PRODUCT DETAILS	PURCHASE
ACC-GANG-2	Accessory, Dock gang kit for 2 Docks	£59
ACC-GANG-3	Accessory, Dock gang kit for 3 Docks	£85
ACC-GANG-4	Accessory, Dock gang kit for 4 Docks	£109
ACC-GANG-5	Accessory, Dock gang kit for 5 Docks	£119
ACC-CASE-DOCK	Accessory, case with foam cut out to hold Dock and gas cylinder	£249

PUMP CARTRIDGE ACCESSORIES

PART NUMBER	PRODUCT DETAILS	PURCHASE
ACC-PUMP-FILT10	Accessory, Bag of 10 pump cartridge particulate filters	£12
ACC-PUMP-STONE5	Accessory, 5 external stone particulate filters	£12
ACC-T2	Accessory, Tubing, 0.6m with Quick-Connects	£15
ACC-T10	Accessory, Tubing, 3.0m with Quick-Connects	£19
ACC-T50	Accessory, Tubing, 15m with Quick-Connects	£29
ACC-G7-PROBE	Accessory, G7 Collapsible Sample Probe	£85

G7 ACCESSORIES

SINGLE-GAS CALIBRATION CAP

| ACC-S-CAL | Accessory, Single-gas Calibration Cap | £10 |

MULTI-GAS CALIBRATION CAP

| ACC-Q-CAL | Accessory, Multi-gas Calibration Cap | £12 |

INTERNAL SINGLE-GAS FILTERS

| ACC-S-FILT10-INT | Accessory, Bag of 10 Internal Single-gas Filters | £11 |

INTERNAL MULTI-GAS FILTERS

| ACC-Q-FILT10-INT | Accessory, Bag of 10 Internal Multi-gas Filters | £59 |

EXTERNAL MULTI-GAS FILTERS

| ACC-Q-FILT10-EXT | Accessory, Bag of 10 External Multi-gas Filters | £99 |

DEMAND FLOW REGULATOR

| ACC-DF | Accessory, Regulator, Demand Flow | £249 |

FIXED FLOW REGULATOR

| ACC-REG | Accessory, Regulator, 0.5L Fixed Flow | £119 |

TRIGGER REGULATOR

| ACC-REG-TRIGGER | Accessory, Regulator, 0.5L/min Trigger | £249 |

FIXED FLOW REGULATOR, STAINLESS STEEL

| ACC-REG-1L | Accessory, Regulator, Stainless Steel, 1.0L/min, Fixed Flow | £249 |

TUBING, 0.5M

| ACC-T2 | Accessory, Tubing, 0.5m with Quick-Connects | £15 |

TUBING, 3.0M

| ACC-T10 | Accessory, Tubing, 3.0m with Quick-Connects | £19 |

TUBING, 15M

| ACC-T50 | Accessory, Tubing, 15m with Quick-Connects | £29 |

GAS CYLINDER WALL-MOUNT

| ACC-58L-MOUNT | Wall mount for 58L gas cylinder | £59 |

DID YOU KNOW?
If the G7 accessory that you need is not listed here, please contact your Blackline Safety representative. We are constantly building out our portfolio and can work with you to ensure your needs are met.

G7 ACCESSORIES

CHARGING ACCESSORIES

BLACKLINE SAFETY'S MULTI-CHARGERS ARE COMPACT, ROBUST AND ALLOW MULTIPLE G7 DEVICES TO BE WALL-MOUNTED FOR CHARGING USING ONLY ONE POWER OUTLET

WALL-MOUNT MULTI-CHARGER, 20 UNIT

ACC-CHG-PNL-20-EU	Accessory, Wall Mount Multi Charger, Europe, 20 devices	£849

WALL-MOUNT MULTI-CHARGER, 5 UNIT

ACC-CHG-PNL-5-EU	Accessory, Wall Mount Multi Charger, Europe, 5 devices	£119

USB VEHICLE CHARGER

ACC-USB-CAR	USB vehicle charger	£12

FIVE-WAY MICRO USB MULTI-CHARGER

ACC-MUL5-CHG-EU	Accessory, 5 Way Micro USB Multi-Charger, Europe	£31

WALL MOUNT BRACKET

ACC-WALL-BRK-BLK	Accessory, Blackline Wall Bracket	£9

WALL MOUNT BRACKET WITH CHARGE CLIP

ACC-WALL-CHG-BRK-BLK-EU	Accessory, Blackline Wall Charger Bracket, Europe	£16

CHARGE CLIP

ACC-LNS-CLIP	Accessory, Blackline Charge Clip	£8

USB WALL CHARGER KIT

ACC-LNS-CHG-EU	Accessory, Blackline USB Wall Charger Kit, EU Plug, charge lead, Blackline Charge Clip, Europe	£24

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Klick Fast for G7 wearables

G7 products are now more wearable than ever with the introduction of the Klick Fast system. Blackline offers a portfolio of optional Klick Fast accessories for G7 wearables that provide users with enhanced versatility in how they wear their devices.

- Easy to use. The Klick Fast Connector slides and locks easily into any Klick Fast Dock which can be used on coveralls, harnesses, and can even be placed on equipment
- Simple to install. Klick Fast Connector easily replaces our standard metal belt clip
- Click and go. Attach or unattach G7 quickly and easily, without fumbling with clips or catches. Klick Fast gives users the option of where, and how, to carry their devices
- Versatile and customisable.

BAG OF 10 KLICK FAST STUDS

| ACC-KF-STUD-10 | Accessory, bag of 10 Klick Fast studs compatible with G7 standard cartridge | £85 |

SHOULDER HARNESS

| ACC-KF-SSHLDR18 | Accessory, shoulder harness compatible with Klick Fast stud | £29 |

BELT DOCK

| ACC-KF-DOCK02 | Belt dock to suit 38mm belt, compatible with Klick Fast stud (other sizes available) | £5 |

STORAGE DOCK

| ACC-KF-DOCK10 | Storage dock, compatible with Klick Fast stud | £15 |

CHEST HARNESS

| ACC-KF-SSHLDR999ADJ | Chest harness, compatible with Klick fast stud | £29 |

Klick Fast stud accessories are compatible with the G7 Standard (no-gas), Single-gas and Multi-gas diffusion cartridges only, and cannot be attached to the Multi-gas pump cartridge or PowerPack accessory. Contact your Blackline representative for additional options.

LOOKING FOR ADDITIONAL KLICK FAST ACCESSORIES?
Email eusales@blacklinesafety.com

Standard options from Blackline Safety

METAL G7 BELT CLIP WITH SCREW

| ACC-G7-MC | Accessory, G7 Metal Belt Clip with Screw | £8 |

PLASTIC G7 BELT CLOP WITH SCREW

| ACC-G7-PC | Accessory, G7 Plastic Belt Clip with Screw | £8 |

G7 EXO: Solutions that won't quit.
For work that can't stop.

EASY TO CUSTOMISE AND CONFIGURE, EVEN EASIER TO DEPLOY.

Designed and tested to ensure they can stand up to the harshest conditions and continue to perform when you need them most, our G7 EXO area monitors are just as tailored to your needs as our veteran portfolio of G7 wearables.

Simply pick a payment plan that works best for you and then get started configuring your system to work exactly the way you need it to. No worry, no hassle.

G7 EXO BUYING OPTIONS

G7 EXO PURCHASE | Get the lowest monthly bill

Pay for hardware upfront, option to add yearly service fee for additional services offered by Blackline Safety. **Pricing shown for G7c device with LEL/O$_2$/CO/H$_2$S multi-gas cartridge.**

£3,750
Due upfront

G7 EXO LEASE | Pay nothing upfront

Get a low monthly payment, spread over four year warranty period.

£0
Due upfront

G7 EXO PURCHASE

1— Cartridge

NH₃	A	A	NH₃
High-range NH₃	B	B	High-range NH₃
CO₂	C	D	COSH
O₃	E	E	O₃
H₂	G	G	H₂
H₂S	H	H	H₂S
High-range H₂S	J	J	High-range H₂S
NO₂	K	K	NO₂
Cl₂	L	L	Cl₂
CO	M	M	CO
HCN	N	N	HCN
CO-H	R	R	CO-H
SO₂	S	S	SO₂
High-range CO	T	T	High-range CO
PID	V	W	ClO₂
ClO₂	W	X	None
None	X		

O	O₂
X	None

LEL-MPS	F
LEL-IR	I
None	X

SELECT A CARTRIDGE

Start by choosing the sensors for your Multi-gas cartridge. You only need to fill out the information for the cartridge you select. This information will be used to build your hardware and service part number.

For example: HIMO

Great! Now write these four letters in alphabetical order

CARTRIDGE INFO

2 — Hardware

BUILD YOUR PART NUMBER

Use your cartridge info from Step 1 to build a final hardware part number. **For example: J-G7EXO-X-X-HIMO-EU2-3Y**

S	Satellite module
X	None

P	Pump module
X	None

J-G7EXO - [....] - [....] - CARTRIDGE INFO (FROM STEP 1) - EU2 - 3Y (WARRANTY & SYSTEM ACCESS)

3 — Price

CALCULATE YOUR SYSTEM PRICE

Use your choices from Steps 1 and 2 to calculate your service price.

SENSORS

NH₃ (A)	£82
High-range NH₃ (B)	£164
CO₂ (C)	£328
COSH (D)	£82
O₃ (E)	£164
LEL-MPS (F)	£0
H₂ (G)	£82
H₂S (H)	£0
LEL-IR (I)	£0
High-range H₂S (J)	£0
NO₂ (K)	£82
Cl₂ (L)	£82
CO (M)	£0
HCN (N)	£82
O₂ (O)	£0
CO-H (R)	£0
SO₂ (S)	£0
High-range CO (T)	£164
PID (V)	£574
ClO₂ (W)	£82

DEVICE + CARTRIDGE

1 sensor	£3585
2 sensors	£3640
3 sensors	£3694
4 sensors	£3750

OPTIONAL MODULES

Satellite module	£1890
Pump module*	£1500

[....] + [....] + [....] = TOTAL PRICE
/UPFRONT GBP

*Not all gas sensor options are compatible with the pump module. Refer to build.blacklinesafety.com for more information.

Buying a satellite module? You will also need an active service plan. See page 52 for details.

4 — Optional service

PUSH-TO-TALK

£6/month

Use G7 EXO to communcate with other G7 devices. 100 channels and global coverage, 250 users per channel, including all-calls during an emergency.
PART NUMBER: J-SER-EXO-PTT-3Y
£72 invoiced annually, three year term

REAL-TIME SAFETY

Self-monitored

£21/month

Monitor your team's safety by adding real-time alerts to Blackline Live and two-way voice calling to the G7 EXO.
PART NUMBER: J-SER-EXO-SV-3Y
£252 invoiced annually, three year term

OR

Blackline 24/7 monitored

£32/month

Blackline Safety's partner ARCs will respond to your team's alerts through voice calls to the G7 EXO. Average response time is less than 60 seconds.
PART NUMBER: J-SER-EXO-BV-3Y
£384 invoiced annually, three year term

Extended warranty available
Visit build.blacklinesafety.com for more information

All prices are an estimate — for a formal quote please use our *build.blacklinesafety.com* website or ask or your local Blackline Safety distributor.

G7 EXO LEASE

1— Cartridge

NH₃	A	A	NH₃	
High-range NH₃	B	B	High-range NH₃	
CO₂	C	D	COSH	
O₃	E	E	O₃	
H₂	G	G	H₂	
H₂S	H	H	H₂S	
High-range H₂S	J	J	High-range H₂S	
NO₂	K	K	NO₂	
Cl₂	L	L	Cl₂	
CO	M	M	CO	
HCN	N	N	HCN	
CO-H	R	R	CO-H	
SO₂	S	S	SO₂	
High-range CO	T	T	High-range CO	
PID	V	W	ClO₂	
ClO₂	W	X	None	
None	X			

O	O₂
X	None

LEL-MPS	F
LEL-IR	I
None	X

SELECT A CARTRIDGE

Start by choosing the sensors for your Multi-gas cartridge. You only need to fill out the information for the cartridge you select. This information will be used to build your hardware and service part number.

For example: HIMO

Great! Now write these four letters in alphabetical order

CARTRIDGE INFO

*Not all gas sensor options are compatible with the pump module. Refer to build.blacklinesafety.com for more information.

2 — Hardware/service

System Access	XX
System Access + PTT	XXP
Self-monitored (no voice)	SX
Self-monitored (no voice) + PTT	SXP
Self-monitored + voice	SV
Self-monitored + voice + PTT	SVP
BLN 24/7 monitored (no voice)	BX
BLN 24/7 monitored (no voice) + PTT	BXP
BLN 24/7 monitored + voice	BV
BLN 24/7 monitored + voice + PTT	BVP

S	Satellite module
X	None

P	Pump module*
X	None

When you're finished it should look something like this:
CMP-G7EXO-BV-X-P-HIMO-EU2-4Y

CMP - G7EXO - ☐ - ☐ - ☐ - CARTRIDGE INFO (FROM STEP 1) - EU2 - 4Y

3 — Price

CALCULATE YOUR LEASE PRICE

Use your choices from Step 2 to calculate your lease price per month.

Your G7 EXO device costs are included in the lease cost.

Four year standard lease term

DEVICE + CARTRIDGE

1 sensor	£82
2 sensors	£83
3 sensors	£85
4 sensors	£86

OPTIONAL MODULES

Satellite module	£43
Pump module*	£34

SENSORS

NH₃ (A)	£3
High-range NH₃ (B)	£6
CO₂ (C)	£12
COSH (D)	£3
O₃ (E)	£6
LEL-MPS (F)	£3
H₂ (G)	£0
H₂S (H)	£0
LEL-IR (I)	£0
High-range H₂S (J)	£0
NO₂ (K)	£3
Cl₂ (L)	£3
CO (M)	£0
HCN (N)	£3
O₂ (O)	£0
CO-H (R)	£0
SO₂ (S)	£0
High-range CO (T)	£6
PID (V)	£21
ClO₂ (W)	£3

SERVICE

System Access (XX)	Incl.
System Access + PTT (XXP)	£10
Self-monitored (SX)	£10
Self-monitored + PTT (SXP)	£17
Self-monitored + voice (SV)	£16
Self-monitored + voice + PTT (SVP)	£24
Blackline 24/7 monitored (BX)	£23
Blackline 24/7 monitored + PTT (BXP)	£29
Blackline 24/7 Monitored + voice (BV)	£28
Blackline 24/7 Monitored + voice + PTT (BVP)	£35

☐ + ☐ + ☐ + ☐ = TOTAL PRICE /MONTH GBP

*Not all gas sensor options are compatible with the pump module. Refer to build.blacklinesafety.com for more information.

Buying a satellite module? You will also need an active service plan. See page 52 for details.

All prices are an estimate — for a formal quote please use our build.blacklinesafety.com website or ask or your local Blackline Safety distributor.

G7 EXO ACCESSORIES

G7 EXO SATELLITE MODULE
The Iridium satellite module option connects G7 EXO to the Blackline Safety Cloud through the Iridium satellite network, for connectivity in even the most remote locations around the globe.

PART NUMBER	PRODUCT DETAILS	PRICE
ACC-G7EXO-SAT	Accessory, G7 EXO, satellite module	£1,890
SER-G7EXO-SAT-M2M	Service, G7 EXO Satellite, billed for any month with activity	FROM£30/month
SER-G7EXO-SAT-3Y	Service, G7 EXO Satellite, 3-year prepay	£1,365
SER-G7EXO-SAT-5Y	Service, G7 EXO Satellite, 5-year prepay	£1,820

G7 EXO PUMP MODULE
For confined space entry and remote monitoring applications, G7 EXO features an optional, four-channel pump module. The pump channels are configurable, allowing you to monitor four remote locations with one area monitor.

PART NUMBER	PRODUCT DETAILS	PRICE
ACC-G7EXO-PUMP	Accessory, G7 EXO, 4 pump module	£1,500

STANDARD BATTERY PACK (144AH)

ACC-G7EXO-BAT	Accessory, G7 EXO Standard Battery Pack (144ah)	£560

FAST BATTERY CHARGER

ACC-G7EXO-FAST-CHARGER-UK	Accessory, G7 EXO Fast Charger, UK	£250

BATTERY REMOVAL HEX KEY

ACC-G7EXO-BATREMTOOL	Accessory, G7 EXO Battery Removal Hex Key	£5

SOLAR PANEL BATTERY CHARGER

ACC-G7EXO-SOLAR	Accessory, G7 EXO Solar Panel kit	£375

DID YOU KNOW?
With a run-time of over 100 days, G7 EXO features the industry's longest-lasting battery in an area monitor. This means it doesn't need to be taken out of commission frequently to re-charge, saving time and affiliated maintenance costs.

For those wanting to keep their units running even longer, G7 EXO batteries can be removed using the HEX key accessory to be plugged into the fast charger or replaced with a fully-charged battery to maximise device run time without the hassle of using other systems.

I/O PORT CABLES, 9.7m

ACC-G7EXO-OUTPUT-C32	ACC, G7 EXO I/O Port Cable (9.7m)	£125

I/O PORT CABLES, 4.8m

ACC-G7EXO-OUTPUT-C16	ACC, G7 EXO I/O Port Cable (4.8m)	£99

I/O PORT CABLES, 3 m

ACC-G7EXO-OUTPUT-C10	ACC, G7 EXO I/O Port Cable (3m)	£79

POWER PORT CABLES, 9.7m

ACC-G7EXO-POWER-C32	ACC, G7 EXO Power Port Cable/Trickle Charger (9.7m)	£125

POWER PORT CABLES, 4.8m

ACC-G7EXO-POWER-C16	ACC, G7 EXO Power Port Cable/Trickle Charger (4.8m)	£80

POWER PORT CABLES, 3m

ACC-G7EXO-POWER-C10	ACC, G7 EXO Power Port Cable/Trickle Charger (3m)	£60

NON-INTRINSICALLY SAFE POWER SUPPLY

ACC-G7EXO-CHG-UK	ACC, G7 EXO Non IS Power Supply, UK	£60

THE PERFECT FIT FOR YOUR FACILITY

Featuring two output ports, G7 EXO integrates other equipment on your site into a comprehensive area and personnel monitoring system. It can activate ventilation fans should gas levels reach a designated high threshold, open or close gates in the event of an emergency or sound an external siren to alert personnel within an area.

Did you know?

Blackline delivers a range of Blackline software APIs to provide customers with access to raw data, powering the freedom to integrate your Blackline Safety solutions into other software systems.

BLACKLINE PUSH API: real-time alerts from the Blackline Safety Network pushed to a customer's existing system
BLACKLINE POLL API: provides access to the last known location and alert information of a device

G7 EXO ACCESSORIES

MOUNTING & CARRYING ACCESSORIES

READY WHEN YOU ARE.
No more questions, just simple placement and hassle-free execution. G7 EXO is designed for any environment, and with a portfolio of available mounting tools and our universal mounting kit, G7 EXO can get to work wherever you need it to.

SURVEY TRIPOD

ACC-G7EXO-TRIPOD	Accessory, G7 EXO Survey Tripod	£200

EXO BASE (STANDOFF)

ACC-G7EXO-STANDOFF	Accessory, G7 EXO Base (Standoff)	£119

UNIVERSAL MOUNT

ACC-G7EXO-UMK	Accessory, G7 EXO Universal Mount	£190

G7 EXO CARRYING CASE

ACC-G7EXO-CARRY	ACC, G7 EXO Carrying Case	£630

DID YOU KNOW?
The G7 EXO universal mounting kit allows for multiple mounting options, allowing G7 EXO to be mounted to horizontal or vertical surfaces. It can attach devices to a pipe, scaffold or other equipment and can accommodate one or more accessories, like a gas cylinder, providing easy attachment to the EXO device without having to remove it.

G7 EXO wall mount

G7 EXO on survey tripod

G7 EXO pipe mount

G7 EXO on base with solar panel

DID YOU KNOW?
G7 EXO can be placed nearly anywhere. If you can't see a pre-built mounting option the meets your needs, Blackline can provide you with drawings of the EXO base (bottom view) for you to build your own custom mounts.

The G7 EXO start-up feature will also let you know if where you placed your unit is the perfect spot. It takes into consideration the quality of the GPS signal at that point, whether or not its orientation is correct, and more. If your mounting or placement point isn't quite right, it will let you know what to adjust and to simply run the start-up sequence again.

G7 EXO universal mount base

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PART NUMBER	PRODUCT DETAILS	Price
GAS-34L-L	34L Gas Cylinder, CL_2 5 ppm, N_2 balance	£209
GAS-58L-L	58L Gas Cylinder, CL_2 5 ppm, N_2 balance	£239
GAS-103L-L	103L Gas Cylinder, CL_2 5 ppm, N_2 balance	£259
GAS-34L-M	34L Gas Cylinder, CO 100 ppm, balance air	£109
GAS-58L-M	58L Gas Cylinder, CO 100 ppm, balance air	£129
GAS-103L-M	103L Gas Cylinder, CO 100 ppm, balance air	£149
GAS-34L-C	34L Gas Cylinder, CO_2 5000 ppm, balance air	£129
GAS-58L-C	58L Gas Cylinder, CO_2 5000 ppm, balance air	£149
GAS-103L-C	103L Gas Cylinder, CO_2 5000 ppm, balance air	£169
GAS-34L-G	34L Gas Cylinder, H_2 2%, balance air	£109
GAS-58L-G	58L Gas Cylinder, H_2 2% , balance air	£129
GAS-116L-G	116L Gas Cylinder, H_2 2%, balance air	£149
GAS-34L-H	34L Gas Cylinder, H_2S 25 ppm, balance air	£109
GAS-58L-H	58L Gas Cylinder, H_2S 25 ppm, balance air	£129
GAS-116L-H	116L Gas Cylinder, H_2S 25 ppm, balance air	£149
GAS-58L-H-2	58L Gas Cylinder, H_2S 40 ppm, balance air	£129
GAS-58L-H-3	58L Gas Cylinder, H_2S 50 ppm, balance air	£129
GAS-34L-HCL	34L Gas Cylinder, HCl, 10 ppm, N_2 balance	£209
GAS-58L-HCL	58L Gas Cylinder, HCl, 10 ppm, N_2 balance	£239
GAS-116L-HCL	116L Gas Cylinder, HCl, 10 ppm, N_2 balance	£279
GAS-34L-N	34L Gas Cylinder, HCN 10 ppm, N_2 balance	£209
GAS-58L-N	58L Gas Cylinder, HCN 10 ppm, N_2 balance	£239
GAS-34L-I	34L Gas Cylinder, LEL (Methane), 50% balance air	£109
GAS-58L-I	58L Gas Cylinder, LEL (Methane), 50% balance air	£129
GAS-103L-I	103L Gas Cylinder, LEL (Methane), 50% balance air	£149
GAS-34L-A	34L Gas Cylinder, NH_3 50 ppm, balance air	£209
GAS-58L-A	58L Gas Cylinder, NH_3 50 ppm, balance air	£239
GAS-116L-A	116L Gas Cylinder, NH_3 50 ppm, balance air	£259
GAS-34L-K	34L Gas Cylinder, NO_2 10 ppm, balance air	£259
GAS-34L-O	34L Gas Cylinder, O_2 18%, N_2 balance	£109
GAS-58L-O	58L Gas Cylinder, O_2 18%, N_2 balance	£129
GAS-103L-O	103L Gas Cylinder, O_2 18%, N_2 balance	£149
GAS-34L-V	34L Gas Cylinder, PID, (Isobutylene) 100 ppm, balance air	£129
GAS-58L-V	58L Gas Cylinder, PID, (Isobutylene) 100 ppm, balance air	£149
GAS-103L-V	103L Gas Cylinder, PID, (Isobutylene) 100 ppm, balance air	£169
GAS-103L-PROPANE	103L Gas Cylinder, C_3H_8 0.85%, balance air	£149

PART NUMBER	PRODUCT DETAILS	Price
GAS-116L-PROPANE	116L Gas Cylinder, C_3H_8 0.85%, balance air	£249
GAS-34L-Q-2	34L Gas Cylinder, 25 ppm H_2S, 100 ppm CO, 50% LEL (2.2% Methane), 18% O_2, N_2 balance	£129
GAS-58L-Q-2	58L Gas Cylinder, 25 ppm H_2S, 100 ppm CO, 50% LEL (2.2% Methane), 18% O_2, N_2 balance	£149
GAS-116L-Q-2	116L Gas Cylinder, 25 ppm H_2S, 100ppm CO, 50% LEL (2.2% Methane), 18% O_2, N_2 balance	£169
GAS-34L-Q	34L Gas Cylinder, 25 ppm H_2S, 100 ppm CO, 50% LEL (2.5% Methane), 18% O_2, N_2 balance	£129
GAS-58L-Q	58L Gas Cylinder, 25 ppm H_2S, 100 ppm CO, 50% LEL (2.5% Methane), 18% O_2, N_2 balance	£149
GAS-116L-Q	116L Gas Cylinder, 25 ppm H_2S, 100 ppm CO, 50% LEL (2.5% Methane), 18% O_2, N_2 balance	£169
GAS-34L-Q-PENTANE	34L Gas Cylinder, Pentane LEL, CO 100 ppm, H_2S 15 ppm O_2 18% Vol, N_2 balance	£129
GAS-58L-Q-PENTANE	58L Gas Cylinder, Pentane LEL, CO 100 ppm, H_2S 15 ppm, O_2 18% Vol, N_2 balance	£149
GAS-116L-Q-PENTANE	116L Gas Cylinder, Pentane LEL, CO 100 ppm, H_2S 15 ppm, O_2 18% Vol, N_2 balance	£169
GAS-34L-Q-PROPANE	34L Gas Cylinder, 50% LEL Propane, 25 ppm H_2S, 100 ppm CO, 18% O_2, N_2 balance	£239
GAS-58L-Q-PROPANE	58L Gas Cylinder, 50% LEL Propane, 25 ppm H_2S, 100 ppm CO, 18% O_2, N_2 balance	£249
GAS-34L-Q-CO2-2	34L Gas Cylinder, 5000 ppm CO_2, 50% LEL (2.2% Methane), 100 ppm CO, 25 ppm H_2S, 18% O_2, N_2 balance	£239
GAS-58L-Q-CO2-2	58L Gas Cylinder, 5000 ppm CO_2, 50% LEL (2.2% Methane), 100 ppm CO, 25 ppm H_2S, 18% O_2, N_2 balance	£249
GAS-116L-Q-CO2-2	116L Gas Cylinder, 5000 ppm CO_2, 50% LEL (2.2% Methane), 100 ppm CO, 25 ppm H_2S, 18% O_2, N_2 balance	£279
GAS-34L-Q-CO2	34L Gas Cylinder, 5000 ppm CO_2, 50% LEL (2.5% Methane), 100 ppm CO, 25 ppm H_2S, 18% O_2, N_2 balance	£239
GAS-58L-Q-CO2	58L Gas Cylinder, 5000 ppm CO_2, 50% LEL (2.5% Methane), 100 ppm CO, 25 ppm H_2S, 18% O_2, N_2 Balance	£249
GAS-116L-Q-CO2	116L Gas Cylinder, 5000 ppm CO_2, 50% LEL (2.5% Methane), 100 ppm CO, 25 ppm H_2S, 18% O_2, N_2 balance	£279
GAS-34L-S	34L Gas Cylinder, SO_2 10 ppm, balance air	£129
GAS-58L-S	58L Gas Cylinder, SO_2 10 ppm, balance air	£149
GAS-116L-S	116L Gas Cylinder, SO_2 10 ppm, balance air	£169

Blackline is in the process of transitioning most gas cylinders from N_2 balanced to air balanced. As a result, gas cylinder part numbers and descriptions are subject to change.

INDUSTRIES

DID YOU KNOW?

Blackline hardware, software and monitoring solutions can be configured to cater to nearly every industry, scenario and application. With diverse customers around the world, we offer countless innovative system combinations to meet their needs and ensure each worker returns home safely at the end of the day.

G7 PURCHASE | Get the lowest monthly bill

Take advantage of your capital purchase budget through a G7 purchase — pay for hardware and system access upfront, option to add yearly service fee for additional services offered by Blackline Safety.

G7 CLASSIC | Get a low upfront cost

Pay for the G7 device — lease the cartridge from Blackline, providing a life-time warranty through the service contract. Additional cartridge service plan required.

G7 LEASE | Pay nothing upfront

Get a low monthly payment, spread over a four year warranty period. Record your Blackline lease as an operational expense, without touching your capital purchase budget.

INDUSTRIES

GAS DISTRIBUTION (MIDSTREAM)

A utility company is looking for a cloud-connected gas detection and lone worker monitoring system for their personnel working at a terminal. With no dedicated staff assigned to safety monitoring, they face the challenge of actively monitoring employee whereabouts and wellbeing on site.

Customer requirements
- Sour natural gas detection (H_2S, LEL and O_2)
- The ability to adjust gas sensor options as business needs change
- Consistent safety monitoring by highly available personnel
- Ability to monitor the wellbeing of lone workers as they travel from site to site
- Require connectivity coverage in a range of locations with cellular coverage

Recommended product and service order — G7 LEASE

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
CMP-BV-G7C-Q-HIMO-EU-4Y	G7 LEASE, Blackline 24/7 monitored with voice (G7c only), G7c Cellular, G7 Multi-gas Cartridge, H_2S, LEL-IR, CO, O_2, Europe, 4 years	£52$^{/mo}$	12	£624$^{/mo}$

Total (GBP) — £624$^{/mo}$

PETROCHEMICAL AND REFINERIES (DOWNSTREAM)

An oil and gas company is looking for a cloud-connected gas detection system for their personnel working at a refinery. They have difficulties consistently collecting data from devices in the field, resulting in a compliance problem. Training is required for all their personnel, both device users and Blackline Live monitoring portal users.

Customer requirements
- Multi-gas detection with H_2S, LEL-IR, CO and O_2
- A solution to their labour-intensive compliance programme

Recommended product and service order — G7 PURCHASE

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
J-G7C-Q-HIMO-EU-2Y	Purchase Model, G7c Cellular, G7 Multi-gas Cartridge, H_2S, CO, LEL-IR, O_2, Europe, 2 years term	£638	500	£319,000
DOCK-P-EU	G7 Dock, Europe	£549	150	£82,350
ACC-DF	Accessory, Regulator, Demand Flow	£249	150	£37,500

Total purchase (GBP) — £438,700

WATER/WASTE WATER

A water/wastewater facility is looking for a safety system to alert their workers for exposure to chemicals and gas-based hazards. They have a challenge of ensuring devices are properly bump tested and calibrated at the appropriate times, while collecting the logs manually has proven costly and time consuming.

Customer requirements
- Comprehensive detection of combustible gases like methane, and toxic gases like hydrogen sulphide (H_2S) and ammonia (NH_3)
- Ability to review the gas detection compliance of individual devices or the entire fleet, without having to manually collect data logs and compile timely reports
- Training and education for employees

Recommended product and service order — G7 CLASSIC

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
G7C-Q-AFHO-EU	Device, G7c Cellular, G7 Multi-gas Cartridge, NH_3, LEL-MPS, H_2S, O_2, Europe	£355	1,100	£390,500
SER-XX-Q-AFHO-1Y	Service, System Access, G7 Multi-gas Cartridge, NH_3, LEL-MPS, H_2S, O_2, 1 Year	£216	1,100	£237,600
SER-PRO	Activation and Professional Onboarding	£75	110	£7,500

Total purchase (GBP) £635,600

UTILITIES

An electrical utility company is seeking a safety solution to monitor the safety of their remote technicians working in the field. The technicians are often working alone and are at elevated risk of exposure to high-voltage hazards, so they need to be able to call for help or have a call for help triggered automatically, should they be rendered incapable. Responders also need to know the location of the worker, as they often work in multiple locations in a day.

Customer requirements
- A system to monitor the wellbeing and whereabouts of employees while on shift
- Ability for a worker in distress to manually call for help
- Automatic incident detection, in case the worker is incapacitated
- Professional monitoring service, available 24/7

Recommended product and service order — G7 LEASE

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
CMP-BV-G7C-Z-EU-4Y	G7 LEASE, Blackline 24/7-monitored with Voice, G7c Cellular, G7 Standard Cartridge, Europe, 4 years	£43/mo	30	£1,290/mo

Total (GBP) £1,290/mo

All pricing is presented in GBP and subject to change.

All pricing is presented in GBP and subject to change.

HEALTHCARE

An at-home healthcare provider is concerned about its staff members who work alone, traveling to client's homes. Employees are at risk of confrontation with some clients or family members, creating the challenge of calling for help in a discrete fashion should something happen. They currently employ a manual check-in process that has become inefficient as employee numbers have grown, especially because workers aren't supposed to use their mobile phones when with clients.

Customer requirements
- A discrete, ideally silent way to call for help should an incident or injury occur
- A reliable check-in process that removes the risk of human error
- A solution that doesn't rely on mobile phones

Recommended product and service order — G7 CLASSIC

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
G7C-Z-EU	Device, G7c Cellular, G7 Standard Cartridge, Europe	£355	10	£3,550
SER-BV-Z-1Y	Service, Blackline 24/7-monitored with Voice, G7 Standard Cartridge, 1 year	£384	10	£3,840
SER-PRO	Activation and professional onboarding for new devices	£75	1	£75

Total (GBP) £7,465

STEEL MANUFACTURING

A steel manufacturing facility is seeking a safety solution to monitor the wellbeing of their employees within their large facility. Workers often work alone at night or on weekends and are separated by loud, heavy equipment, making it difficult to communicate with one another or request help if they need it. There is also a risk of dangerous gas exposure, particularly to high levels of CO and SO_2.

Customer requirements
- An intrinsically safe means of communicating with other workers
- The ability to call for emergency help 24/7 should they need it
- Customisable gas detection capability

Recommended product and service order — G7 CLASSIC

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
G7C-Q-IORS-EU	Device, G7c Cellular, G7 Multi-gas Cartridge,LEL-IR,O_2,CO-H,SO_2, Europe	£355	117	£41,535
SER-BV-Q-IORS-1Y	Service, Blackline 24/7 monitored with voice (G7c only), G7 Multi-gas Cartridge, LEL-IR, O_2, CO-H, SO_2, 1-year	£492	117	£57,564
DOCK-P-EU	G7 Pump Dock, Europe	£549	3	£1,647
ACC-DF	Accessory, Regulator, Demand Flow	£249	3	£747
SER-PRO	Activation and professional onboarding for new devices	£75	12	£900

Total (GBP) £102,393

ENGINEERING, PROCUREMENT & CONSTRUCTION MANAGEMENT (EPCM)

An EPCM company is looking for an all-in-one safety and productivity solution to monitor the real-time safety of their employees and track and gas exposures throughout their shift. Managers also need a simple means to communicate with their workers for day-to-day operational productivity and overall workflow optimisation.

Customer requirements
- Real-time notifications of slips, trips and falls with the option to communicate with workers directly and deploy emergency services on-site or off-site to their location
- Live notifications of gas exposures and a visual reference of all gas exposures on a map
- Radio communication for day-to-day operational tasks as well as emergencies (person-to-person and mass/evacuation notifications)
- Productivity tracking tools to identify work-front roadblocks and delays such as permit status, equipment distance from tool store to work area, etc.

Recommended product and service order — G7 CLASSIC

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
G7C-Q-FHOR-EU	Device, G7c Cellular, G7 Multi-gas Cartridge, LEL-MPS, H$_2$S, O$_2$, CO-H, Europe	£355	100	£35,500
SER-BV-Q-FHOR-2Y	Service, Blackline 24/7 monitored with voice & PTT, G7 Multi-gas Cartridge, LEL-MPS, H$_2$S, O$_2$, CO-H, 2-year	£965	100	£96,500
SER-PRO	Activation and Professional Onboarding	£75	10	£750
VS-STO	Blackline Vision, digital turnarounds, shutdowns and construction program development	£9,300 one-off fee	2	£18,600
SER-VS-STO-1Q	Hosting, maintenance and support	£1,550 /quarter	8	£12,400

Total (GBP) £163,750

RENEWABLE POWER GENERATION

A solar energy company is looking for a lone worker safety monitoring system for their 15 employees, and the external help to create a successful programme, from policy to implementation. Workers often operate in large, open areas out of sight and sound of coworkers but within cellular coverage. The company does not have a control room, and requires a way to both monitor employee safety from a distance and communicate with them in the event of an emergency.

Customer requirements
- Professional safety monitoring for lone workers around the clock
- Two-way voice communications with monitoring personnel during an emergency
- Two-way voice communications between team members throughout their shifts

Recommended product and service order — G7 CLASSIC

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
G7C-Z-EU	Device, G7c Cellular, G7 Standard Cartridge, Europe	£355	7	£2,485
SER-SVP-Z-1Y	Service, Self-monitored voice with PTT, G7 Standard Cartridge, 1-year	£336	7	£2,352
SER-PRO	Activation and Professional Onboarding	£75	1	£75

Total (GBP) £4,912

LOGISTICS/TRANSPORTATION

A trucking transportation company is worried about the safety of their workers while on long haul trips. They currently use a manual check-in process using smartphones but worry about distracted driving, human error and complacency.. There is also a risk of physical injury due to road side accidents while adjusting loads, falling from trailers and fatigue while driving. Using mobile phones while driving isn't an option and radio communication has been inconsistent. They need a simple solution for drivers to communicate their safety that won't distract them while traveling.

Customer requirements

- An automated check-in process that won't distract the worker while driving
- A device that automatically detects falls/impact events and communicate them with monitoring personnel
- A way for drivers to manually call for help
- Detection of gas hazards, particularly carbon monoxide (CO) and VOCs

Recommended product and service order — G7 LEASE

PART NUMBER	PRODUCT DETAILS	PRICE (EA)	QTY	EXTENDED PRICE
CMP-BV-G7C-P-DIOV-EU-4Y	G7 LEASE, Blackline 24/7-monitored with Voice, G7c Cellular, G7 Multi-gas Pump Cartridge, COSH, LEL-IR, O$_2$, PID, Europe, 4 years	£82$^{/mo}$	60	£4,820$^{/mo}$
CMP-DOCK-P-EU-4Y	G7 LEASE, G7 Dock, Europe, 4 years	£13$^{/mo}$	45	£585$^{/mo}$
ACC-DF	Accessory, Regulator, Demand Flow	£249	45	£11,205$^{/upfront}$

Total (GBP)   £5,505$^{/mo}$ | £11,205^{upfront}

All pricing is presented in GBP and subject to change.

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blacklinesafety

Wherever there's a need for safety

We're there