



**CUSTOMIZED, CERTIFIED, AND RELIABLE SOLUTIONS
FOR EXPLOSIVE ENVIRONMENTS**





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Jiří Klein

Founder/CEO

“As father and son, leading this company, we’re personally committed to engineering products that exceed industry standards. We believe everyone deserves reliable performance, driving our expert engineers to continually push technological boundaries.

For us, it’s more than a profession – it’s a mission we passionately fulfil, together, from the start.”

ELOK provides a comprehensive, end-to-end solution for your needs, turning your ideas into reality. From electronic and mechanical design to selecting the right hazardous area Ex solution, prototyping, testing, certification, and serial production, we handle every step. Throughout the process, we maintain close communication with you to ensure the delivery of a tailored solution.

With **over 30 years of experience**, ELOK combines expert design teams and state-of-the-art technology in our in-house workshops, equipped with modern production tools. We specialize in manufacturing high-quality equipment for hazardous areas and explosive atmospheres (Ex), and are certified in accordance with **ATEX, IECEx, CSA, and UL** standards.

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What is an Ex Environment?

An Ex environment is a space where flammable gases, vapors, or dusts may be present — often found in industries like oil & gas, chemical processing, mining, or food production. These atmospheres carry a real risk of explosion, and even a single spark can trigger a serious incident.

To manage this risk, hazardous areas are classified into zones:

<p>Zone 0</p>	An area in which an explosive gas atmosphere is present continuously or for long periods or frequently.
<p>Zone 1</p>	An area in which an explosive gas atmosphere is likely to occur periodically or occasionally in normal operation.
<p>Zone 2</p>	An area in which an explosive gas atmosphere is not likely to occur in normal operation but, if it does occur, it will exist for a short period only.

Each zone demands careful control and the right choice of equipment.

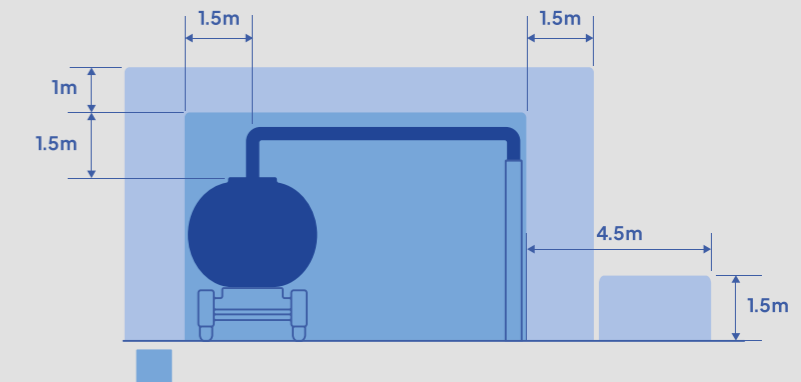
WHY USE EX PRODUCTS?

Ex-certified products are specifically designed to operate safely in explosive atmospheres. They eliminate ignition risks by preventing sparks, overheating, or static discharge. Using uncertified equipment in these areas isn’t just unsafe — it’s a potential hazard to people, assets, and operations.

With Ex products, you ensure compliance, reduce downtime, and most importantly, protect lives. It’s not just about following the rules — it’s about doing things right.

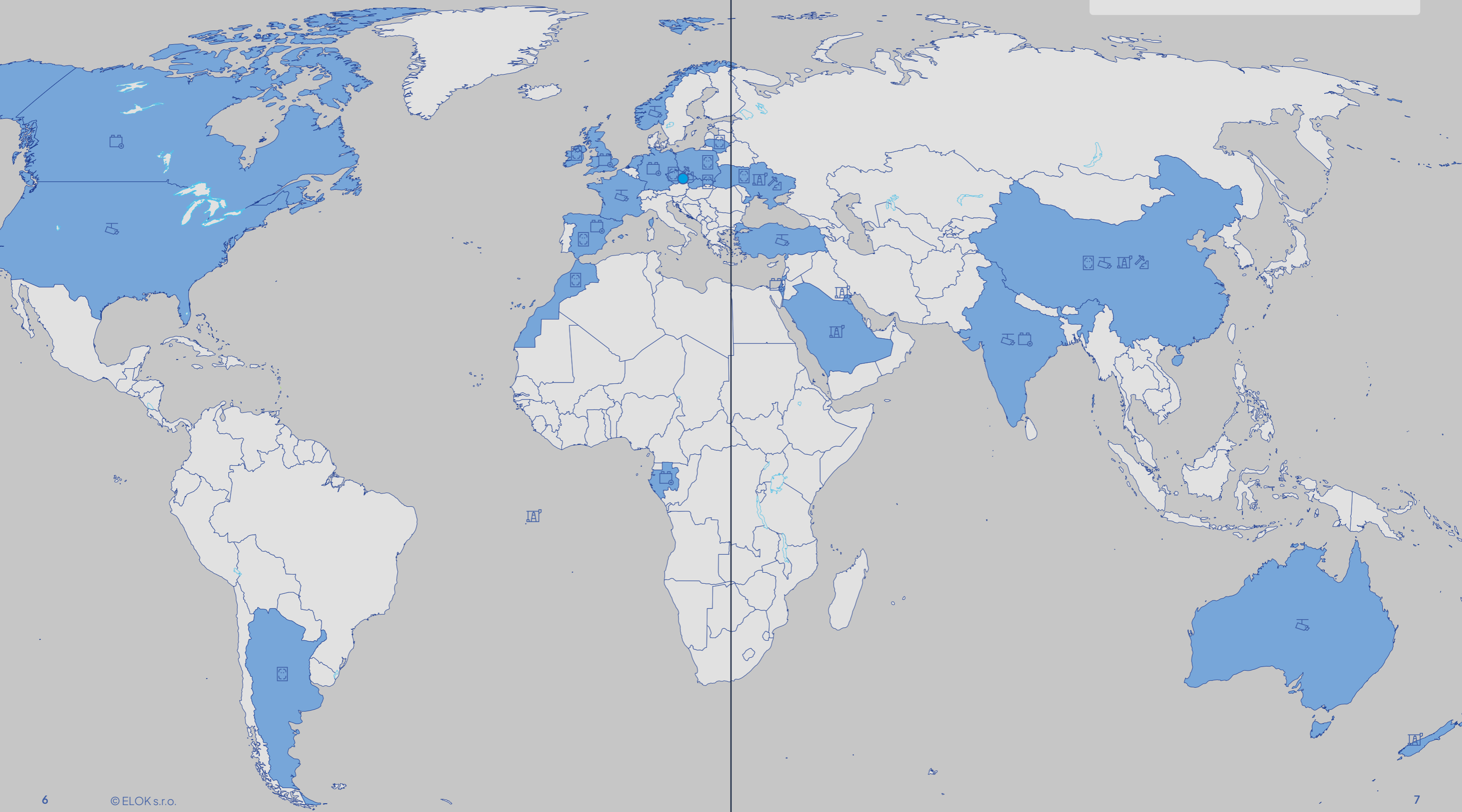
Zone Classification

- Zone 0
- Zone 1
- Zone 2

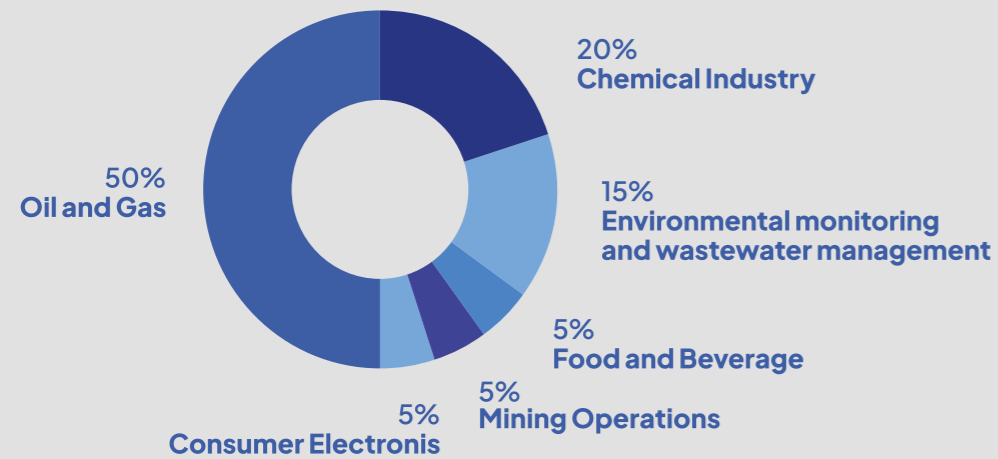


ELOK World Map

-  EGT
-  Bateries
-  Cameras
-  Additives and Petrochemistry
-  ELOK
-  Mining Applications



We Are ELOK



30+

Years of Experience

250+

Satisfied Customers

100+

Customer Solutions

40+

Unique products



DESIGN-SOLUTION

Electronic Equipment Design

Solutions for hazardous areas (Ex) including wireless communication, sensors, and battery technologies. Expertise in microprocessor design (32-bit), hardware, and software, all aligned with EU directives.

Mechanical Design

Specializing in solutions for hazardous environments (Ex), including flameproof, high-IP, and robust enclosures. Flexible design process with in-house prototyping.

Testing & Innovation

In-house EMC testing for industrial, automotive, and military applications. Climate chamber testing and continuous innovation in design to meet the highest industry standards.



PRODUCTION

PCB Assembly

Automatic and manual assembly for both SMT and THT, utilizing wave and reflow soldering techniques for reliable, high-quality production.

Mechanical Production

Prototype and series production of flameproof enclosures and high-IP solutions for hazardous areas.

Final Assembly

Complete integration of electronic and mechanical components, including wiring, connectors, and glands, ensuring the highest quality and safety for end users.



OEM

Tailored OEM Solutions

Elok excels in providing customized OEM solutions, offering flexible and reliable development processes that cater to specific customer needs.

Global Expertise

With over 30 years of experience, we serve long-term OEM clients across various industries, ensuring products meet rigorous quality standards and hazardous area certifications.

EGT – Electric Grounding Tester

In environments where safety is paramount, proper grounding is essential. In high-risk settings, like fuel transfer in the oil and gas industry, static electricity can lead to dangerous sparks. That's why we developed the EGT – Electric Grounding Tester, ensuring safe grounding during critical operations.

WHY IS GROUNDING CRUCIAL?

When handling flammable materials like fuel, static electricity can pose a significant risk. Our EGT product guarantees that your equipment is properly grounded, eliminating the threat of electrostatic discharges that could lead to hazardous fire or explosion.

WHAT MAKES EGT UNIQUE?

The EGT is designed for easy installation and operation. Its main function is continuous verification of proper grounding, ensuring operators always know their equipment is safe. With the LED indicator, which clearly signals proper grounding, the entire process is straightforward and intuitive. Additionally, the EGT offers:

- **Object Control**
Easily identify whether the equipment is a tanker or not, ensuring accurate grounding.
- **Winter/Summer Operation Correction**
Adjusts automatically to ensure reliable operation in varying environmental conditions.
- **Bluetooth Diagnostics and Settings**
Allows for remote diagnostics and customization of settings for easy troubleshooting and fine-tuning.

WHICH INDUSTRIES BENEFIT FROM EGT?

Oil & Gas	Chemical	Transport & Logistics
Ensures safe fuel transfer during loading and unloading operations.	Protects equipment from electrostatic discharges that can cause fires or explosions.	Effectively grounds trucks, containers, and big bags, ensuring safety during material handling.
Beverages & Food Widely used in distilleries and bottling plants for ensuring safety in the production of alcoholic beverages, soft drinks, and other food-related materials.	Pharmaceutical Essential for grounding in the pharmaceutical industry to prevent electrostatic hazards in production environments.	

ADVANTAGES OF EGT

Quick Visual Confirmation	Simple and Reliable	Versatile
A green flashing LED confirms that grounding is secure and the process can proceed.	Easy to install with a durable design, ideal for harsh environments.	Whether in oil, chemical, or logistics industries, EGT is the perfect solution for those working in hazardous conditions.

Ex db ib [ib] IIB+ H2 T4 Gb

Zone 1

Zone 2

AVAILABLE VARIANTS

Stainless steel

Maximum durability and longevity.

Pharma

Specially designed for the pharmaceutical industry, meeting stringent safety standards.

ACCESSORIES

Cables and reels for easy handling and flexibility during use.



Our EGT is a simple, effective, and reliable tool for ensuring safe grounding in all hazardous environments. It helps protect your operations from the risks of static electricity with minimal effort. Ensure the safety of your work today with EGT!

ExSight — Explosion-Proof Inspection Cameras

ExSight inspection cameras are designed for use in hazardous **Ex Zone 0** environments— where traditional inspection methods are not only risky and often prohibited. These cameras allow high-quality visual inspections without the need to send personnel into dangerous zones, offering an innovative solution for industries such as **oil and gas, chemical production, and waste management.**

The ExSight cameras have **high quality sensing element**, integrated LED lighting, and **long-distance video transmission**, making them perfect for a wide range of hazardous environments. With their **IP68** protection and the ability to be **submersible in crude oil**, these cameras are built for extreme conditions. System combine **safety and durability** in a way that standard inspection tools cannot.

ExSight cameras are certified to international safety standards such as **IECEX** and **ATEX**, ensuring their safe use in explosive atmospheres. These certifications guarantee the highest level of safety for operations in zones with explosive gases, vapors, and dust.

WHY EXSIGHT?

ExSight inspection cameras are the ideal solution for companies in **hazardous industries** that need to perform visual inspections in **Ex Zone 0 environments**. The ExSight cameras are built with robust integrated LED lights, and intrinsically safe power supplies to ensure that they meet the highest safety standards. These cameras are not just tools—**they are your solution for safer, cost effective inspections in some of the most dangerous environments on earth.** Experience for more than 15 years.

KEY FEATURES

- Ex-zone 0 certified for the highest level of safety in hazardous environments.
- High quality video for clear and accurate inspections.
- Powerful **integrated LED light** for visibility in dark or confined spaces.
- Battery-powered with **up to 8 hours** of continuous operation.
- Submersible in crude oil (25 meters, up to 3 days).
- Long-range video transmission (up to 110 meters).

	ExSight 5	ExSight 6
Camera Clasification	Zone 0	Zone 0
Camera Gas Clasification	IIC	IIB
Control Unit Clasification	Safe Zone	Zone 1
Transmission distance between Camera and Control Unit	110 m	20 m
Power Suply	110-230V 50-60 Hz	Battery powered (Fixed instalation as option)
Image Quality	PAL (720×576 px)	HD (1280×800 px)
Integrated light	Yes	Yes



ExSight-5: Reliable and Robust for Heavy Duty Tasks

The ExSight-5 camera system is designed for use in Ex Zone 0 hazardous environments, making it ideal for industries such as oil and gas, chemical production, and waste management.

Ex ia op IIB T4 Ga

Zone 0 ●

Zone 1 ●

Zone 2 ●

The ExSight-5 features a stainless steel housing with a variety of lenses and integrated high-intensity LED light to ensure that inspections can be conducted even in low-light or confined spaces. The camera is designed to be intrinsically safe, powered by an intrinsically safe power supply, and has **IP68 ingress protection**, making it resistant to water, dust, and harsh chemicals.

With a **transmission range of up to 110 meters**, this camera provides flexible video transmission even across large industrial spaces. It is also submersible in crude oil (up to 25 meters depth for 2 days), making it well-suited for use in oil and gas industries.

KEY FEATURES

Ex-zone 0 Compatible Ex-zone 0 certified for safe use in hazardous areas.	IP68 Protection IP68 ingress protection, ensuring resistance to water, dust, and chemicals.	Powerful Integrated LED Light Integrated LED light for enhanced visibility in dark spaces or low-light areas.
Up to 100m Distance Up to 110 meters transmission range, ideal for large-scale inspections.	Submersible in Crude Oil Submersible in crude oil for up to 2 hours (up to 25 meters deep).	Safety Intrinsic safety for maximum operational security.

CERTIFICATIONS

→ IECEx
 → ATEX
 → Ex ia op is IIB T4 Ga
 → UL/CSA

SPECIFICATIONS

Resolution	PAL 720x576 pixels
Temperature Range	-10°C to +60°C

ACCESORIES

Non Ex display

Analog to IP camera external module

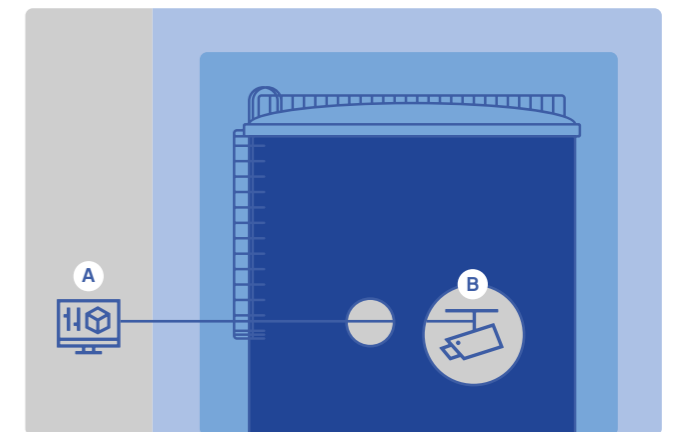
Tripod



ExSight 5 Environment

- Zone 0
- Zone 1
- Zone 2
- Safe Zone

A Control Unit
 B EXSIGHT 5



ExSight-6: Advanced Inspection for Critical Environments

The ExSight-6 camera offers an even more advanced and rugged solution for Ex Zone 0.

Ex ia op is IIB T4 Ga

Zone 0 ●

Zone 1 ●

Zone 2 ●

Designed with HD video resolution and a high-intensity integrated LED light, it ensures precise and clear visuals during inspections in the most hazardous conditions.

The ExSight-6 features a battery-powered system, providing up to 8 hours of continuous operation, making it highly reliable for long-term inspections in remote or difficult-to-reach locations. The camera is sealed with IP68 protection, ensuring its performance in extreme conditions such as submersion in crude oil (25 meters depth for up to 3 days).

As with the ExSight-5, the ExSight-6 is equipped with a stainless steel housing and wide-angle lens, and it is powered by an intrinsically safe supply, making it ideal for operations in explosive environments.

KEY FEATURES

Ex-zone 0 Compatible

Ex-zone 0 certified for maximum safety in explosive environments.

IP68 Protection

IP68 ingress protection, ensuring resistance to water, dust, and chemicals.

HD Video

HD video resolution for detailed and clear visuals. Including taking photos and video recording.

Battery-powered

Battery-powered for up to 8 hours of continuous inspection.

Submersible in Hydrocarbons

Submersible in diesel, petrol for up to 3 days (25 meters deep).

Integrated LED

Integrated LED light for effective inspection in dark or confined spaces.

Wide-angle

Wide-angle lens for improved coverage during inspections.

CERTIFICATIONS

→ IECEx
→ Ex ia op is IIB T4 Ga

SPECIFICATIONS

Resolution	HD 1280x860 px 3280x2560 px (Photo)
Temperature Range	-10°C to +60°C

ACCESSORIES

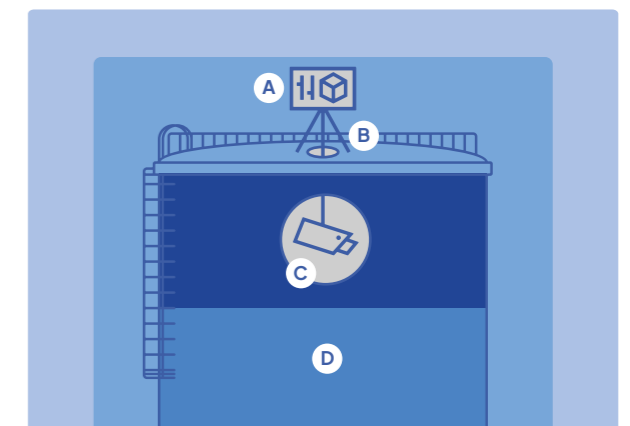
Charger	Additional batteries	Tripod
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ExSight 6 Environment

- Zone 0
- Zone 1
- Zone 2

- A Control Unit
- B Handling Arm
- C EXSIGHT 5
- D Petrol



Explosion-Proof Batteries

Our Explosion-Proof Batteries are designed for use in Zone 1 and Zone 2 areas, providing a safe and reliable power source when stationary power is unavailable. Ideal for powering sensors, cameras, and wireless devices in hazardous environments, these batteries ensure smooth operations without compromising safety.

WHY CHOOSE EXPLOSION-PROOF BATTERIES?

<p>Reliable Power in Critical Situations</p> <p>Keep operations running when traditional power sources are not accessible.</p>	<p>Perfect for Remote Devices:</p> <p>Ideal for sensors, cameras, and wireless communication in explosive zones.</p>
<p>LED Capacity Indicator</p> <p>Easily track battery levels with clear LED status indicators.</p>	<p>Safe Charging in Hazardous Areas</p> <p>Charge safely in Zone 1 or Zone 2 areas for continuous operation.</p>

PRODUCT VARIANTS

<p>Zone 1 Ex eb ib mb [ib] IIB T4</p>	<ul style="list-style-type: none"> → Stainless Steel Design and Ingress Protection IP67 → Safe for charging in Zone 1 → Output 12V → Max. Output 5A → Capacity 20Ah
<p>Zone 1 Ex db IIB T4</p>	<ul style="list-style-type: none"> → Supplied with small Exd Connector → Aluminium Housing and Ingress Protection IP67 → Output 12V → Max. Output current 1.5A → Capacity 10Ah
<p>Zone 2 Ex ic IIB T4</p>	<ul style="list-style-type: none"> → Standalone capacity indication with 5 LEDs → Ingress Protection: IP65 for dust and water protection → Dual 12V → Outputs 3,2 Ah → Intrinsically safe Output

WHY TRUST OUR BATTERIES?

<p>Safety and Compliance</p> <p>Certified for use in explosive atmospheres.</p>	<p>Durable and Reliable</p> <p>Built for harsh environments, ensuring long-lasting performance.</p>	<p>Flexible Power Solutions</p> <p>Power a wide range of devices in hazardous areas with ease.</p>
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Our Explosion-Proof Batteries offer a safe, reliable, and flexible power solution for your critical operations in hazardous environments.



ELOK GSM Unit – Reliable Wireless Communication

The ELOK GSM Unit is designed for seamless wireless communication in explosive atmospheres. With LTE, 3G, and 2G connectivity, and an RS485 interface, it integrates easily with other devices for secure data transfer in demanding environments.

II 2G Ex eb ob ib mb [ib] IIB T4 Gb

Zone 1

Zone 2

KEY BENEFITS

Global Connectivity

Works with worldwide cellular networks, ensuring reliable communication anywhere.

Device Integration

Supports multiple devices via Modbus, creating a unified network.

Efficient and Flexible

Low power consumption with a battery-powered option for off-grid locations.

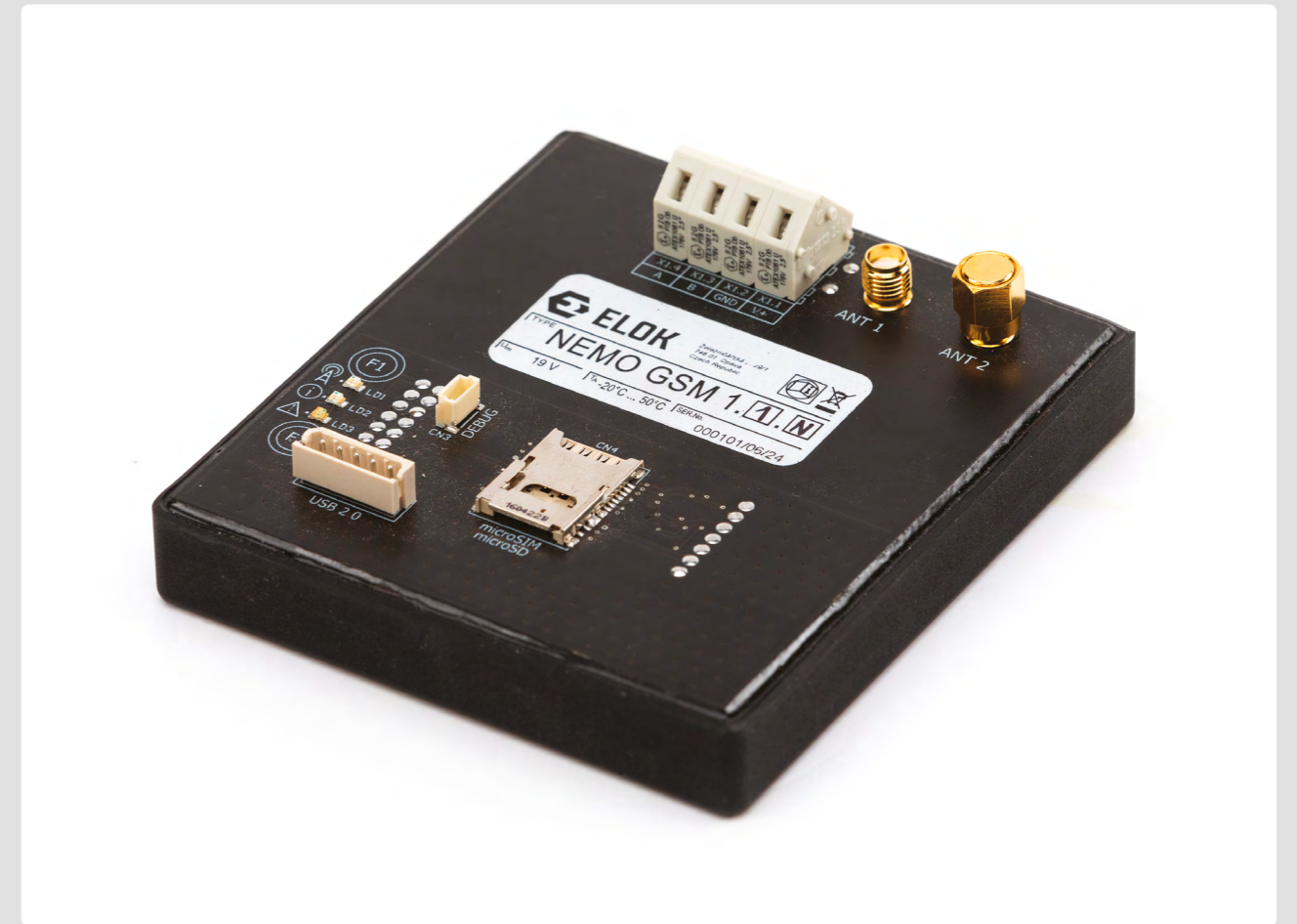
Certified Safety

Built to the highest safety standards, ensuring reliable protection in hazardous environments with advanced explosion-proof technology (II 2G Ex eb ib mb [ib] IIB T4).

Data Storage

Internal micro-SD for storing information.

For reliable and secure communication in explosive zones, choose the ELOK GSM Unit—your trusted solution for hazardous environments.



ELOK Solutions for Mining Operations

Elok Opava offers specialized solutions for hazardous mining environments, ensuring safety and efficiency with over 30 years of expertise in explosion-proof equipment.

KEY PRODUCTS FOR MINING OPERATIONS

Sounder

Loud and reliable alarm system for hazardous areas. Provides clear auditory signals for vehicle movement, process progress, or other safety alerts.



LED Beacon

High-visibility rotating light, designed for use in explosive zones. Ideal for signaling process stages, vehicle movement, or safety hazards.



Headlamp

Compact and durable personal lighting solution, designed for use in deep mines. Features long-lasting LED technology and meets strict safety standards for underground use.



Elok's products are built to withstand the toughest conditions, ensuring your operations are safe and efficient in hazardous mining environments.

ELOK Solutions for You

Need your product modified for explosive environments?

ELOK offers full-service development, certification, production, and global distribution to meet your needs.

OUR FACILITIES

EMC Laboratory

Ensuring electromagnetic compatibility and radio technology testing.

Environmental Laboratory

Testing products under real-world conditions.

Prototyping

In-house PCB assembly, mechanical production, and final assembly.

INDUSTRIALIZATION

We scale production from 20 to 100,000 units annually, delivering high-quality solutions at any volume.

CERTIFICATION

We handle all certification processes to ensure compliance with industry standards.



OUR PARTNERS

PETRONACO®

Dräger

FMC Technologies



ELOK – Your trusted partner for customized, certified, and reliable solutions for explosive environments.

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