

Wolf® H4DCA Halogen Handlamp (4 Cells)

Article Number: 08020200

The Wolf H-4DCA is a **classic and durable** halogen handlamp with proven global reliability, specifically designed for use in hazardous areas. Offered by **IST Safety Ltd**, the **official distributor of Wolf**, this model is one of the most ideal and economical solutions for operations where charging is limited or battery-powered backup is required.

The device is fully certified for industrial hazardous areas (Zone 1/21) and underground mines (**I M2 Mining**). Featuring a high-impact resistant polymer body, a 6mm toughened glass lens, and an IP66 ingress protection rating, it maintains its performance even under the harshest physical conditions. Its halogen bulb, powered by 4 D-cell batteries, provides an effective light beam even in smoky or foggy environments.



Usage Areas

- **Mining:** Underground mine operations, firedamp risk areas, and tunnel inspections.
- **Oil & Gas:** Refineries, storage terminals, and offshore platforms.
- **Marine:** Engine rooms, cargo holds, and vessels carrying hazardous cargo.
- **Industrial Maintenance:** Chemical plants, power plants, and confined space entries.

Certification & Compliance:

- Suitable for use in Zones 1, 2 (gas) and Zones 21, 22 (dust)
- Gas Group: IIA, IIB, IIC
- Dust Group: IIIA and IIIB
- Temperature Class: T4
- Complies with EN IEC 60079-0, EN 60079-7, EN 60079-11 and EN 60079-31 standards.
- EX II 2GD Ex eb ib IIC T4 Gb (-10°C ≤ Ta ≤ +40°C)

Ex tb IIIB T135°C Db IP66

Technical Specifications:

- **Light Source:** New Two-Part LED Module
- **Brightness Duration:** Up to 45 hrs
- **Body Material/Lens:** Thermoplastic, Anti-Static / Toughened Glass (6mm)
- **Power Source:** Operates on 4 x 1.5V Primary Cells
- **Weight:** Approximately 1.54kg

Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

Standards



Ex-Proof (ATEX)



IECEx



CE 0598



LR Certificate

TECHNICAL DETAILS

WOLF H-4DCALED HANDLAMP

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| PRODUCT REFERENCE | | H-4DCALED |
| PRODUCT DESCRIPTION | | LED Safety Handlamp, Primary Cell Powered |
| CODE | ETX, IECEx & UKCA | II 2GD Ex eb ib IIC T4 Gb Ex tb IIIB T135°C Db IP66 |
| TYPE OF PROTECTION | | “eb” increased safety, “ib” intrinsic safety, “tb” protection by enclosure |
| AREA OF CLASSIFICATION (GAS) | | Zones 1 and 2, Gas Groups IIA, IIB and IIC |
| TEMPERATURE CLASS (GAS) | | T4 |

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| AREA OF CLASSIFICATION (DUST) | | Zones 21 & 22, Dust Groups IIIA and IIIB |
| MAX.SURFACE TEMP. (DUST) | | 135°C |
| AMBIENT TEMPERATURE | | -10°C to +40°C |
| CERTIFICATE | ATEX | BAS00ATEX2176 |
| | UKEX | BAS21UKEX0359 |
| | IECEX | IECEX BAS 16.0076 |
| ENCLOSURE/LENS | | Thermoplastic, Anti-Static / Toughened Glass (6mm) |
| BEAM TYPE | | Spot |
| LIGHT SOURCE | PART NUMBER | H-84 |
| | TYPE | New Two-Part LED Module |
| | WATTS | 1.51W |
| | OUTPUT AT SOURCE | 269lm |
| | LIFE | 25,000 hrs |
| POWER SOURCE | PART NO. | 4 x H-20 (LR20) |
| | TYPE | LR20/R20 Primary Cells to IEC60086 |
| | VOLTS | 4 x 1.5V |
| LIGHT DURATION | | Up to 45 hrs |
| INGRESS PROTECTION | | IP66 |

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| WEIGHT (INC. CELLS) | 1.54kg |
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What is ATEX Lighting?

What is ATEX and what does exproof mean? The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

What is ATEX Zone Classification?

ATEX Zone coding is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series). However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.



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