

GALIGDS CAT3G

Ex Gas Detection Active Conversion

ATEX Group II - Zone 2

gali

GDS00XXX-CA_en-a



GALI converts electric industrial vehicles for safe operation in ATEX Zone 2 hazardous areas, where the presence of gas or vapour may create an ignition risk. The **GALI GDS** system is an active protection solution designed to continuously monitor the working environment and inform the driver whether the area is safe to operate in.

The conversion includes **gas detection technology** that provides the driver with **clear visual and audible warnings**. If gas or vapour is detected at **10% LEL** (Lower Explosive Limit), the system alerts the driver to leave the hazardous area. If the concentration reaches **25% LEL**, the vehicle automatically performs a controlled stop, helping to reduce ignition risk and improve operational safety.

The GALI GDS system mainly consists of a **5" LED monitor screen**, a **PLC-based control system**, **two independent gas sensors**, **surface temperature monitoring** and **additional safety-related adaptations**.

As part of the conversion process, the entire vehicle is inspected, reviewed and adapted to comply with the safety requirements for **ATEX Zone 2 – Category 3G applications**.

The **GALI GDS conversion is quick to install, easy to operate**, and allows the vehicle to retain its original ergonomics and usability. It provides a **cost-effective safety solution** without the need for additional components such as gas bottles, and without the daily start-up self-test required by other systems on the market.

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