L&J Technologies

A COGNESENSE BRAND

MCG 2150

Remote Calibrator

Terminal operators, field technicians, maintenance teams, and compliance officers working in explosive environments need safe, fast, and non-intrusive calibration of gauging equipment. For them, the MCG 2150 provides an intrinsically safe handheld calibrator that eliminates tank climbing and the need to open explosion-proof housings. Using a wireless infrared link, the 2150 enables full programming, diagnostics, and calibration from up to ten feet away, maintaining enclosure integrity and reducing operator exposure in hazardous environments.

Unlike traditional calibration methods requiring direct wiring or access to internal electronics, the 2150 preserves system sealing while dramatically reducing service time. Its compact, battery-powered design and universal compatibility with all our infrared-equipped gauges make it a versatile tool for tank farms, chemical plants, and petroleum terminals seeking safer workflows and minimized downtime.



Key Features

Non-Intrusive Calibration

Wireless IR communication allows full calibration and programming without opening explosion-proof housings, keeping instruments sealed and safe.

Intrinsic Safety

UL and ATEX certifications ensure safe handheld operation in hazardous atmospheres where electrical tools pose ignition risks.

Reduced Service Time

Rapid IR connection enables technicians to perform adjustments in minutes, significantly minimizing downtime and labor.

Universal Gauge Compatibility

Supports all L&J instruments equipped with IR pickups, eliminating the need for multiple calibration tools across facilities.

Operator Safety Improvement

Ground-level calibration eliminates tank climbing and reduces exposure to vapors, confined spaces, and elevated work hazards.

Reliable Field Operation

Proven wireless communication and robust design ensure consistent performance even in challenging environmental conditions.

Typical Applications

PETROLEUM STORAGE TANKS

Provides full calibration at ground level, eliminating dangerous climbs to tank tops while improving service time and worker safety.

CHEMICAL & PHARMA PLANTS

Enables safe, non-intrusive calibration for sensitive products where opening housings could risk contamination or regulatory violations.

LARGE TANK FARMS

Ideal for facilities with numerous gauges, offering one universal calibrator to streamline operations and reduce technician workload.

HAZARDOUS-AREA OPERATIONS

Allows safe calibration without breaking explosion-proof seals, maintaining compliance in flammable or high-risk installations.

ROUTINE MAINTENANCE CYCLES

Speeds up recurring calibration tasks, ensuring gauges remain accurate while minimizing disruption to plant operations.

STARTUP & COMMISSIONING

Simplifies gauge configuration during new installations, reducing setup time and ensuring safe, consistent commissioning practices.

Benefits

Improved Safety

Wireless calibration removes the need to access tank tops or open enclosures, reducing exposure to hazardous conditions.

Lower Service Costs

Eliminates specialized wiring or laptop connections, decreasing maintenance complexity and overall technician labor.

Operational Efficiency

One compact calibrator supports multiple L&J gauges, reducing training effort and standardizing site procedures.

Regulatory Compliance

Intrinsically safe design ensures calibrations can be performed without compromising safety requirements in explosive environments.

Extended Equipment Life

Avoids repeated opening of explosion-proof housings, reducing mechanical wear and prolonging gauge service life.

Consistent Performance

Stable wireless IR communication ensures dependable calibration results regardless of environmental or operational conditions.

Technical Specifications & Key Features

Power:	Rechargeable battery with extended runtime.
Communication:	Infrared wireless link for programming and calibration.
Compatibility:	Works with all L&J instruments equipped with IR pickups (radar gauges, servo gauges, smart accessories).
Design:	Lightweight, intrinsically safe handheld unit.
Safety:	Certified for hazardous-area operation.
User Interface:	Simple keypad with clear display for easy operation in the field.

Model Number Selection

The model number will consist of a base number MCG 2150 followed by a digit.
These digits will represent 1 option table:

A • APPROVAL RATING	
U	UL - Class I, Groups C & D
B	EN IEC 60079-0:2018, EN 60079-11:2012. II1G Ex ia IIC T5 Ga

Summary

With over 100 years of innovation in tank measurement and safety, Cognesense continues to engineer tools that protect operators while streamlining operations. The MCG 2150 Remote Calibrator reflects this legacy by combining safety, portability, and ease of use into one essential handheld device. By choosing the 2150, operators gain a reliable and cost-effective solution that enhances safety, reduces downtime, and supports the long-term performance of their tank gauging systems.

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This document is for information purposes only. All designs subject to change. Certified dimensions, specifications, and performance data available upon request