

MCG 1350M

Ground Level Display

For terminal operations managers, safety compliance officers, tank farm operators, and EPC specifiers who need safer access to tank data and faster calibration without climbing, the MCG 1350 provides full-function ground-level display and infrared programmability. Offering identical functionality to the gauge head, it ensures complete diagnostic and configuration capability at ground level, reducing exposure to fall hazards, vapors, and confined spaces.

Unlike third-party displays with limited visibility or control, the 1350/1350M delivers full compatibility with L&J radar, servo, and transmitter systems while preserving all programming functions. Its explosion-proof housing, hazardous-area approvals, and compatibility with the MCG 2150 IR calibrator support safe operation in Class I Div. 1 environments. By eliminating the need to open electronics enclosures or access the tank top, the MCG 1350 streamlines calibration, improves technician productivity, and reduces overall maintenance risk.



Key Features

Improved Operator Safety

Enables full configuration and diagnostics at ground level, eliminating tank climbing and reducing exposure to vapors and fall hazards.

Full-Function Interface

Replicates the gauge's complete display and programming features, ensuring no loss of diagnostic or calibration capability during service.

Infrared Programming

Allows remote IR calibration using the MCG 2150, enabling adjustments without opening enclosures or entering hazardous areas.

Cross-Gauge Compatibility

Supports servo, radar, and transmitter models, simplifying system design and reducing the need for multiple display types.

Hazardous-Area Safety

Explosion-proof enclosure and UL/ATEX certifications ensure safe operation in classified environments with flammable atmospheres.

Enhanced Service Efficiency

Provides rapid access to operating data and configuration menus, reducing downtime and minimizing technician time on site.



Typical Applications



CUSTODY TRANSFER VALIDATION

Enables users to confirm calibration and gauge data from ground level, improving safety and ensuring compliant custody-transfer documentation.



TANK FARM OPERATIONS

Centralizes access for mixed fleets of gauges, simplifying technician workflows and reducing training demands across large terminals.



CHEMICAL & PETROCHEMICAL PLANTS

Supports safe operation in flammable atmospheres with explosion-proof construction and sealed IR programming capability.



MAINTENANCE & CALIBRATION

Eliminates the need for manual climbs during calibration or troubleshooting, reducing labor hours and improving service response time.



ENVIRONMENTAL COMPLIANCE SITES

Provides safe, ground-level system access that keeps workers out of hazardous zones during emissions-controlled or regulated operations.



HIGH-UTILIZATION FACILITIES

Ensures rapid diagnostics and configuration during frequent operational changes, supporting uptime in continuous-process environments.

Benefits



Enhanced Safety

Removes the need for tank climbing, significantly reducing fall risks and personnel exposure to hazardous vapors.



Faster Service

IR calibration and diagnostics at ground level cut service times and avoid opening explosion-proof covers.



Lower Costs

One display supports multiple gauge types, reducing spare-parts inventory and lowering training and maintenance expenses.



Operational Reliability

Provides identical functionality to the gauge head, ensuring complete diagnostic access without compromise.



Certifiable Compliance

Hazardous-area approvals guarantee safe operation in global environments requiring stringent explosion-proof performance.



Seamless Integration

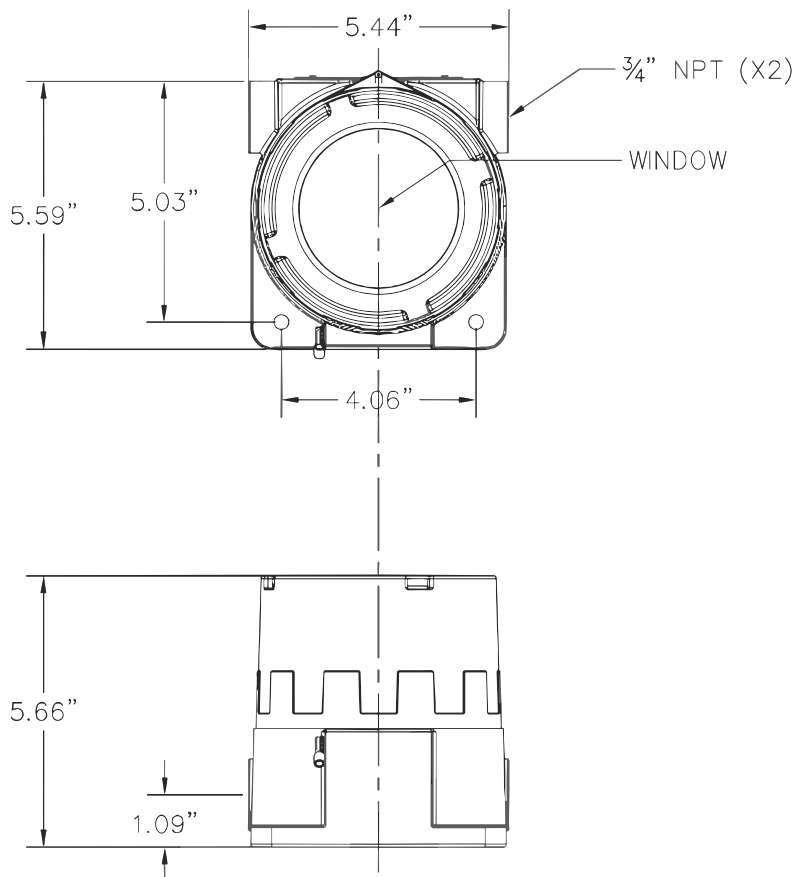
Works directly with major L&J gauges, enabling consistent user experience and unified system support.



Technical Specifications & Key Features

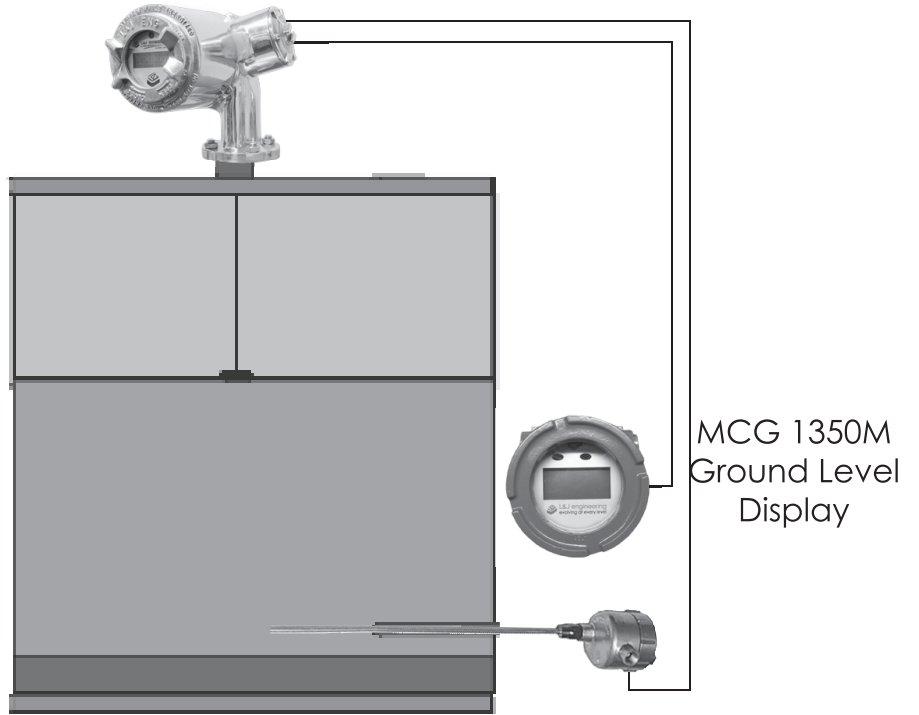
Display:	4-line × 20-character LCD (MCG 1350); Graphical LCD (MCG 1350M variant)
Programming:	Infrared, via MCG 2150 handheld calibrator
Voltage:	10–48 VDC
Dimensions:	6.25" diameter × 4.375" depth
Weight:	5 lbs (2.3 kg)
Safety Approvals:	<ul style="list-style-type: none"> • UL Explosion Proof, Class I Groups C & D • CENELEC / ATEX II 2 G EEx d IIB T6 • ABS Approved
Enclosure Options:	Aluminum or NEMA-rated variants
Mounting:	"U" bolt & mounting plate (recommended)
Compatibility:	Works with MCG 1500SFI, MCG 1600SFI, MCG 2000MAX, evo 2600
Accessories:	Requires MCG 2150 handheld IR calibrator

Dimensions



MCG 1500SFI

Typical System Layout



Model Number Selection

The model number will consist of a base number MCG 1350M followed by 5 digit letters. These digits will represent 5 option tables:

A • MATERIAL	
0	Aluminum

B • ENCLOSURE RATING	
1	UL - Class I, Groups B, C, & D, Class II Groups E, F, & G; Class III
2	ATEX - II 2 G EEx d IIB; II 2 D

C • HEATER	
0	No Heater
1	Heater

D • DISTANCE TO GAUGE	
0	Standard (<75' 4 - Wire)
1	Extended (>75' 6 - Wire)
2	Extended (>75' 4 - Wire, No Backlight)

E • PRODUCT COMPATIBILITY	
1	MCG 1500SFI Servo Gauge
2	MCG 1600SFI Radar Level Gauge
3	MCG 2000MAX Transmitter
4	evo 2600 Radar Gauge

Summary

With over a century of tank measurement expertise, Cognesense provides proven safety, reliability, and innovation. The MCG 1350 Ground Level Display reflects this legacy by protecting operators, reducing maintenance costs, and ensuring complete compatibility with the world's most accurate custody-transfer gauges. Choosing Cognesense means choosing a partner trusted worldwide to protect your product, your people, and your profits.

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