



Comprehensive Diagnostics

Portable Gauge emulator

Reduced Start-Up Time

Local LCD Display

The L&J Engineering MCG 2100 Field Calibrator

MCG 2100 Portable Diagnostic Calibrator and Emulator

When in the computer mode, the MCG 2100 is able to communicate with any of the L&J MCG Series Gauges. The calibrator is equipped with the ability to display the level, temperature reading and the discrete input status being sent back from the transmitter. This enables the operator to check the conditions of the field wiring and proper operation of the control room (i.e. L&J MCG 3000 series computers). In the troubleshooting mode, different types of faults are displayed on the LCD.

Applications

Trouble shooting

Miniature computer terminal

Fault tester

Field calibration

Field emulator

Downloading of parameters

SPECIFICATIONS

Output Voltage: P= 36 VDC, power for transmitter
E= 0 VDC, input from transmitter
C= 30 VDC, output from pulse train
G= 0 VDC, ground
Others available

Readout: 32 character alphanumeric LCD

Protocols: Tankway Std.; GPE, Modbus Opt.

Units: Level; feet, inches and 1/16ths or feet, and .01 feet, or metric.
Temperature: +/- 800°F, 2°F or C increments

Calibrator Settings: Baud Rate: 300, 600, 1200, 2400, 4800, 9600

Address: 0-127 selectable
Mode: Receiver or transmitter
Test: Pattern 1 or 2
Level/Temp: level test or temperature test
MCG Series 1000, 1010, 1500, 1600, 2000 or 3000 series
Rotation: clockwise or counter clockwise for MCG 2000
Power: ON/OFF switch
RTD: Test Copper & Platinum RTD's (optional)

Power Supply: 12 VDC gel cell

Battery Life: 8 hours minimum per change

Recharge Time: 10 hours maximum

Connections: 4 binding posts (field)
1 recessed power receptacle for 12 VDC charger

Dimensions: Ht: 2.5", Width 7", Depth: 9.5"
Weight: 4 lbs.

All designs subject to change. Certified dimensions and specifications available upon request.

INFORMATION REQUIRED TO ORDER:

MCG 2100 - AB - CD
INTERFACE TYPE _____
POWER SUPPLY _____

MCG 2100 - FIELD CALIBRATOR

(Portable unit communicates to all MCG Level Gauges / Transmitters)

Includes: MCG 2100 unit, L&J Tankway cable, RTD cable & charger

MODEL NUMBER SELECTION:

The model number will have a base number, **MCG 2100**, followed by 4 digits. These digits will represent two sets of option tables.

MCG 2100 - AB - CD
TABLE I _____
TABLE II _____

TABLE I - INTERFACE TYPE

AB
00 - L&J Tankway (Standard)
02 - L&J Tankway and RS-232
03 - ModBus on RS-485 (4-Wire)
04 - Varec Matrix
05 - Varec 4-Wire
06 - HART
07 - ModBus on L&J Tankway
08 - ModBus on RS-485 (2-Wire)

TABLE II - POWER SUPPLY

CD
00 - 110 VAC (Standard)
02 - 220 VAC