



Meets states EPA requirements for underground storage tanks

Tank level and leak detection monitoring

Extremely accurate microprocessor based system

Approved for leak detection in tanks up to 150,000 gallons

Reliable remote communication through RS232 port

The L&J Engineering MCG 8100 Tank Monitor

A Convenient, Powerful Remote Monitor

The MCG 8100 communicates and provides power to any of the L&J 81xx series magnetostrictive sensors or leak detection probes through a convenient 4 wire data highway. Up to 10 individual probes and 12 external sensors can be connected in parallel to the same MCG 8100, with the appropriate amount of I.S. barriers

Through this data highway, the MCG 8100 can be used for product level, water level and product temperature in the tanks. Hydrocarbon sensors are also constantly checked by the unit for liquids or vapors. The unit's 20 digit keypad, 4 line LCD display, and self-prompting menus make the MCG 8100 easy to program and operate for even the most inexperienced users.

Flexible Reports and Alarms

Inventory reports can be generated automatically, up to six times a day, when programmed into the system. Four programmable discrete alarm contact outputs are provided. These contacts can be used in conjunction with alarm horns or lights to inform operators of alarm conditions. A built in buzzer is activated on any alarm. The buzzer and contacts remain activated until acknowledged even if the alarm condition clears.

Computerized "Super Smart" Technology

The MCG 8100 is one of the L&J "Super Smart" series of products that takes advantage of the latest advances in large scale integration (LSI), and high density surface mount technology. The unit includes up to 256K RAM and ROM, two serial ports, one parallel port, and multiple DMA channels and clock timers. Together these features offer the processing power of a full-sized computer in a small, easy to install panel or wall mount package.

In addition to providing complete on-site monitoring and inventory control the MCG 8100 can optionally be configured with an RS232 communication port to provide local information to your central computer system, providing for complete monitoring of all your sites from a central location.

Applications

Product Level
Density
Liquid Detection
Wet Well

Average Temperature
Vapor Detection
Net Volume
Dry Well

Water Level
Gross Volume
Interstitial

Remote communication to other systems

SPECIFICATIONS

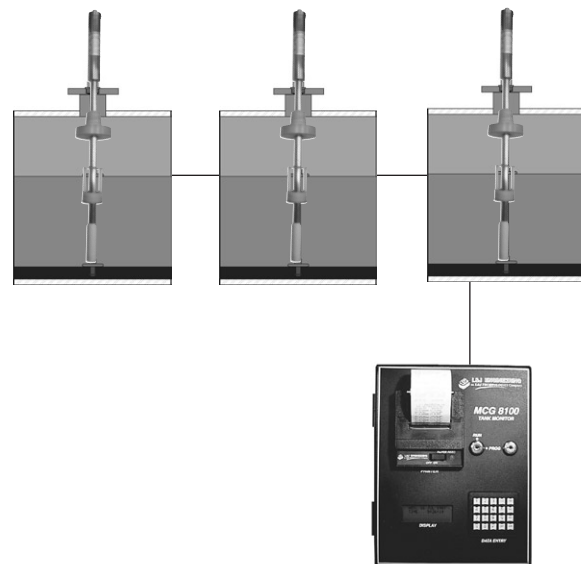
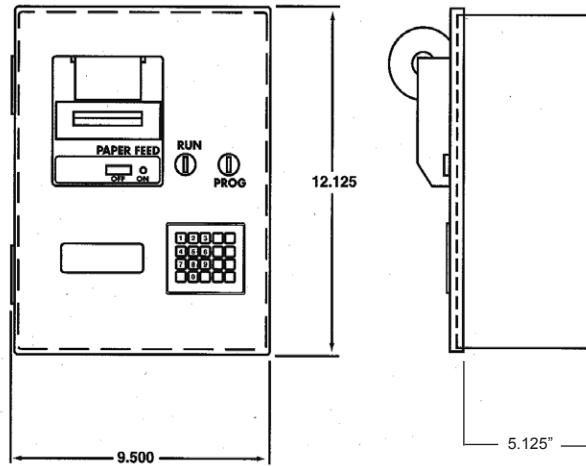
The MCG 8100 is a wall mounted console which is equipped with the following standard features:

- Built-in Printer
- Built-in 4-Line Display
- 10 Tank Capabilities (Expandable)
- Remote Communications
- Alarm System
- 20 Digit Data Keypad
- 12 External Probe Capabilities

Operating Principle:	Microprocessor Based
Communication:	L&J Tankway to 81xx series sensors and probes
Resolution Level:	.001 inch
Temperature:	.01° F
Remote Communications:	RS232 Port
Printer:	24 Column Impact
Display:	4 Line LCD, 80 Character
Alarms:	High/Low Product, High Water, Vapor Detection, Liquid Detection
Printed Reports:	Inventory, Delivery, Alarm Conditions, Night Movements, Auto Leak Test
Leak Detection Rate:	0.1 Gallons/hour
Enclosure Size:	12-1/4" H x 9-1/2"W x 5-1/4"L
Battery Back-up:	12 V Gell Cell (8 hr. duration)
Approvals:	UL Listed, Third Party EPA certified
Regulatory:	Meets EPA UST Leak Detection Requirements

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

DIMENSIONS



INFORMATION REQUIRED TO ORDER:

MCG 8100 - AB - CD - EF - GH - IJ

- LEVEL PROBE & LEAK TEST _____
- MONITORING CAPABILITIES _____
- I.S. BARRIERS/PRINTER _____
- POWER INPUT/RELAYS _____
- READOUT _____

MCG 8100 TANK MONITOR

Includes: Tank Inventory, Interstitial Leak Sensing*, Delivery Reports, Alarm Reports, Night Monitor Reports and Close Out. One IS Barrier. Alarm Relay with two (2) dry contacts.

* Sensors not included; must be ordered separately

MODEL NUMBER SELECTION:

The model number will have a base number, **MCG 8100**, followed by ten digits. These digits will represent five option tables.

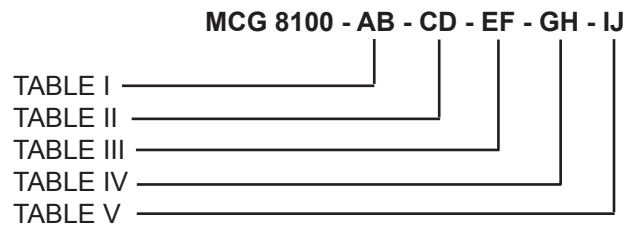


TABLE I - LEVEL PROBE AND LEAK TEST

AB

- 00 - Direct Digital Probe .2 GPH Leak Test
- 10 - Magnetostrictive Probe .2 GPH Leak Test
- 11 - Magnetostrictive Probe .1 GPH Leak Test
- 12 - Magnetostrictive Probe with Pressure Transducer
- 13 - Magnetostrictive Probe with Pressure Transducer (w/leak detect)
(Up to 15,000 Gal Tank .2 GPH Leak Detection)
- 14 - Magnetostrictive Probe with Pressure Transducer (w/leak detect)
(Up to 150,000 Gal Tank .2 GPH Leak Detection)
- 20 - Magnetostrictive Probe for Tanker Trucks
- 50 - No Level, Interstitial Only

TABLE II - MONITORING CAPABILITIES*

CD

- 00 - Level, BS&W & Interstitial
- 01 - Level, Interstitial & Vapor
- 10 - Level, Interstitial & Ground Water
- 11 - Level, Interstitial, Ground Water & Vapor
- 20 - Level, BS&W & Temp
- 99 - Ground Water & Vapor Only
- 02 - Level, Temperature & Net Volume with Density

* Sensors not included; must be ordered separately

TABLE III - NUMBER OF I.S. BARRIERS*

E

- 0 - With Printer
- 1 - No Printer

F

- 0 - 0 Barrier
- 1 - 1 Barrier
- 2 - 2 Barriers
- 3 - 3 Barriers
- 4 - 4 Barriers
- 5 - 5 Barriers
- 6 - 6 Barriers

*If additional barriers required, consult factory.

TABLE IV - POWER INPUT/RELAYS*

GH

- 00 - 120 VAC, 2 Dry Contacts Out
- 01 - 120 VAC, 4 Dry Contacts Out
- 02 - 120 VAC, 5 Dry Contacts Out
- 10 - 220 VAC, 2 Dry Contacts Out
- 11 - 220 VAC, 4 Dry Contacts Out
- 12 - 220 VAC, 5 Dry Contacts Out
- 20 - 12 VDC, 2 Dry Contacts Out
- 21 - 24 VDC, 2 Dry Contacts Out

*If additional contacts required, consult factory.

TABLE V - READOUT

IJ

- 00 - English Readout, No Remote Capability
- 01 - English Readout, With Remote Capability
- 10 - Metric Readout, No Remote Capability
- 11 - Metric Readout, With Remote Capability