

MCG 1200M Analog/Digital Transmitter

Complete Control

The MCG 1200M Series Transmitter is an extremely flexible microprocessor based RTU. Receiving an analog input it converts the analog signal to digital, displays the data, and transmits the data via the L&J 4-wire data highway or other digital protocols to the system computer. The MCG 1200M can also provide the loop power for 24VDC loop powered devices.

Compatibility

The 4 to 20mA signals from an ultrasonic level gauge, a pressure transducer, or magnetostrictive probe, as well as a 3-wire RTD, could wire directly to the MCG 1200M. Any values can be displayed on the local LCD and the data transmitted back to a central computer/receiver via the standard L&J Tankway 4-wire digital highway or other digital protocol. The MCG 1200M can also take temperature inputs and discrete I/O.

Total System Integration

This provides the ability to add virtually any type of instrument or sensing device to the system without the need of running individual analog data wires back to the control room. The MCG 1200M provides for a convenient reliable interface between the gauging or SCADA system and various analog devices. New or updated programming can be downloaded to any 1200M Transmitter into its on-board flash memory "on the fly" to incorporate protocol changes and additional functionality.

Graphical LCD Display w/ Infrared Calibration

The MCG 1200M utilizes a brand new local graphical LCD display which has the ability to display up to 10X more information than the previous 2x16 character LCD display used on previous generations of the MCG 1200. As with all the L&J's state of the art level gauging solutions, the MCG 1200M can be configured via infrared technology by using the MCG 2150 Remote Calibrator in hazardous environments.



Features

- Analog to Digital Conversion
- Monitor Field / Internal Parameters
- Reliable Interface between Analog Devices and Digital Protocols
- Advanced Flash Memory Technology
- Wireless Infrared Programming
- Local Graphical LCD Display

Applications

- Interface various field control and monitoring equipment to the inventory management system
- Specifically designed for any sized application
- Converts analog signals to digital protocols

Specifications

Display:

Local Graphical LCD Display

Communication:

L&J Tankway
Other digital protocols
Wireless

Temperature Inputs:

3-Wire RTD (Copper or Platinum)
Average Temperature*

Analog Inputs:

Up to 4 4-20mA Inputs

Pulse Inputs:

Up to 2 Pulse Inputs

Discrete I/O:

Up to 8 Discrete I/O's

Analog Outputs:

Up to 2 4-20mA Outputs

Power Options:

12 - 70 VDC, 24 VDC Loop Power

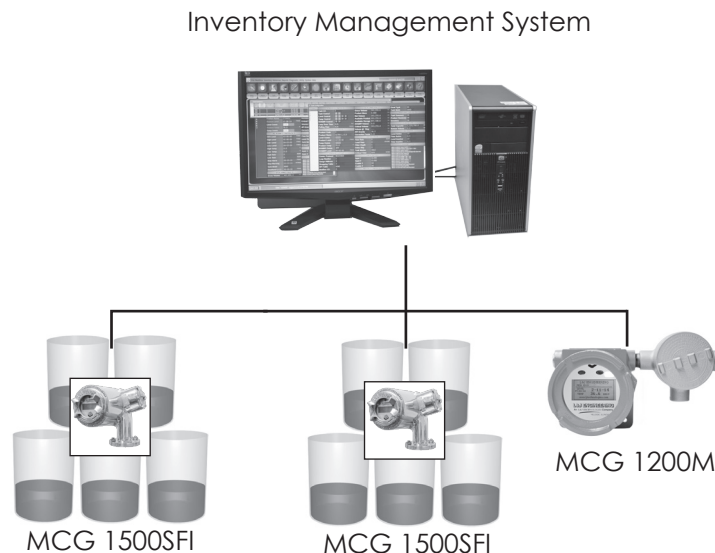
Enclosure Rating:

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

*Requires MCG 2350 (ordered separately)

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

Typical System Layout



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

MCG 1200M Ordering Guide

MCG 1200M Analog/Digital Transmitter

Includes: Explosion Proof Housing, Infrared Remote Capabilities, Smart Flash Technology, Local Graphical LCD Display

MCG 2150 Remote Calibrator

(One Required)

Model Number Selection:

The model number will consist of a base number **MCG 1200M** followed by 10 digit letters. These digits will represent 7 option tables:

MCG 1200M - AB - CD - EF - GH - IJ

AB – Analog Inputs / Temperature	
00	None
02	Average Temperature*
05	4-20 mA Input (Single)
06	4-20 mA with Average Temperature* (No Barriers)
08	Dual 4-20 mA Input
11	Spot Temperature
14	Spot Temperature, with Barriers
17	4-20mA with Spot Temperature
32	Dual Spot / Dual 4-20 mA Input

*Order MCG 2350 Separately

E – Relays	
0	No Relays
1	2 Relays
2	4 Relays
3	6 Relays
4	8 Relays

F – Control Points	
0	None

GH – Pulse Inputs	
00	None
01	One
02	Two

J – Display	
1	Level
2	Temperature
3	Pressure
4	Volume
5	Rate
6	Level & Temperature
7	Level & Pressure
8	Level & Volume
9	Level & Rate
A	Level, Temp, & Density

CD – Singal Outputs	
00	None
02	L&J Tankway
04	4-20 mA Output
06	L&J Tankway / Dual 4-20 mA (Level & Temperature)
08	Dual 4-20 mA Out (Level & Temperature)
10	GPE 31422, 31423
12	Varec 4-Wire
16	L&J Tankway / 4-20 mA Out (Level)
18	RS-232 Output
24	Modbus on RS-485 (2-Wire)
26	RGL/NMC Interface
28	Modbus on L&J Tankway
30	Modbus on RS-485 (4-Wire)
32	Enraf
34	HART
36	Ti-Way Interface
37	TRL/2
39	Ti-Way Interface (TI150 Emulation)
40	WirelessHART
42	Profibus DP

I - Power Supply	
0	48 VDC - Standard (12-70 VDC)