



Analog to digital conversion

Monitor Field / Internal Parameters

Reliable interface between analog devices and digital protocols

Advanced Flash Memory Technology

Wireless Infrared Programming

The L&J Engineering MCG 1200SFI Transmitter

Complete Control

The MCG 1200SFI 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 1200SFI 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 1200SFI. 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 1200SFI 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 1200SFI 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 1200SFI Transmitter into its on-board flash memory "on the fly" to incorporate protocol changes and additional functionality.

Applications

Interface various field control and monitoring equipment to the inventory management system

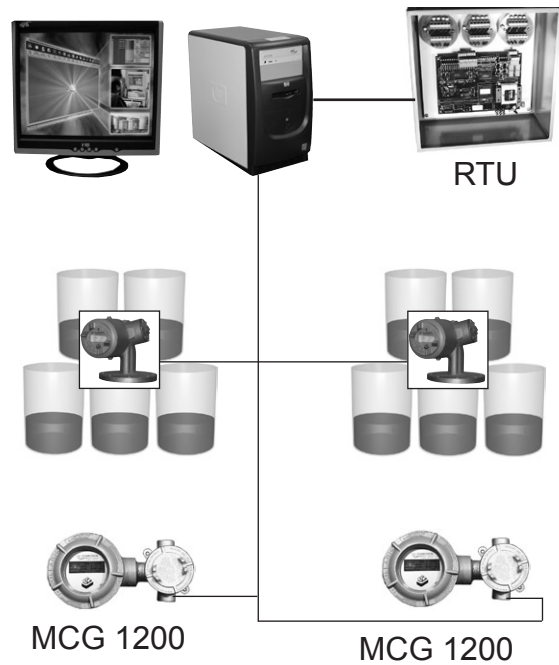
Specifically designed for any sized application

SPECIFICATIONS

Display:	2 Line x 16 Character LCD Display
Communication:	L&J Tankway Digital Other digital protocol, Wireless
Temperature Inputs:	3-Wire RTD (Copper or Platinum) Averaging elements (up to 14 Point)
Analog Inputs:	Up to 8 4-20mA or 10-50mA 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 or 10-50mA Outputs
Power:	24VDC, 48VDC, 48VAC, 110VAC 220VAC, Solar
Enclosure:	Explosion Proof Class I, Div. 1, Group C & D

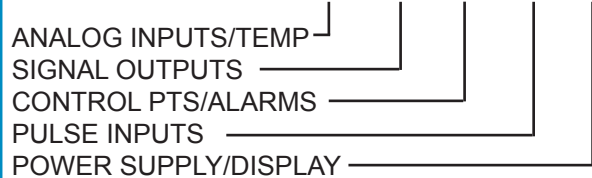
All designs subject to change. Certified dimensions and specifications available upon request.

INVENTORY MANAGEMENT SYSTEM



INFORMATION REQUIRED TO ORDER:

MCG 1200 (F) - AB - CD - EF - GH - IJ



MCG 1200SFI BASIC TRANSMITTER

Includes: Explosion Proof Housing, Comm/Data Board (L & J Tankway), Infrared Remote Capabilities, Online Program Updates (Flash Memory), Local Display, Smart Flash Infrared Series CPU.

MCG 2150 HANDHELD INFRARED CALIBRATOR

(One Required)

MCG 2151 SFI PROGRAMMER

MODEL NUMBER SELECTION:

The model number will have a base number, **MCG 1200F**, followed by 10 digits. These digits will represent 5 option tables.

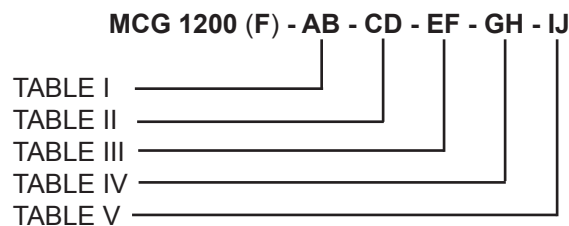


TABLE I - ANALOG INPUTS / TEMPERATURE

AB

- | | |
|---|---|
| 00 - None | 08 - Dual 4-20mA Input |
| 02 - Average Temperature* | 11 - Spot Temperature |
| 03 - Average Temperature*, with Barriers | 14 - Spot Temperature, with Barriers |
| 05 - 4-20mA Input (Single) | 17 - 4-20mA with Spot Temperature |
| 06 - 4-20mA with Average Temperature*
(no barriers) | 32 - Dual Spot / Dual 4-20mA Input |

*Order MCG 2350 separately

TABLE II - SIGNAL OUTPUTS

CD

- | | |
|--|--|
| 00 - None | 18 - RS-232 Output |
| 02 - L&J Tankway | 24 - Modbus on RS-485 (2-wire) |
| 04 - 4-20mA Output | 26 - RGL/NMC Interface |
| 06 - L&J Tankway/Dual 4-20mA
(Level & Temp.) | 28 - Modbus on L&J Tankway |
| 08 - Dual 4-20mA Out (Level & Temp.) | 30 - Modbus on RS-485 (4-wire) |
| 09 - Dual 4-20mA Out (Level, Temp & BS&W) | 32 - Enraf |
| 10 - GPE 31422, 31423 | 34 - HART |
| 12 - Varec 4 Wire | 36 - Ti-way Interface |
| 14 - Varec Matrix | 37 - TRL/2 |
| 16 - L&J Tankway/4-20mA Out (Level) | 38 - Wireless (Explosion Proof) |
| | 39 - Wireless (Non-Explosion Proof) |

TABLE III - ALARMS / CONTROL POINTS

- E**
0 - No Alarms
1 - 2 Alarms
2 - 4 Alarms

- F**
0 - None
1 - 1 point
2 - 2 points
4 - 4 points

TABLE IV - PULSE INPUTS

- GH**
00 - None
01 - One
02 - Two
03 - Three
04 - Four
05 - Five
06 - Six
07 - Seven
08 - Eight

TABLE V - POWER SUPPLY / DISPLAY (2 Line X 16 Character Display)

- I**
0 - 48 VDC
1 - 24 VDC
2 - 110 VAC
3 - 220 VAC
4 - 48 VAC
5 - Solar Ready

- J**
0 - No Display
1 - Level
2 - Temperature
3 - Pressure
4 - Volume
5 - Rate
6 - Level & Temperature
7 - Level & Pressure
8 - Level & Volume
9 - Level & Rate