



Flexible Host System Interface

Reliable Data Transfer

Bi-Directional communication

The L&J Engineering MCG 3221 Protocol Convertor

Standard Configuration

L&J Engineering offers the TDC 3000 PLCG compatible interface to help keep with the growing demands of the industrial world. The MCG 3221 is a microprocessor based device supporting bi-directional communications.

The communications between the MCG 3221 and the host system is tailored according to the requirements of the host system. Standard protocols include but are not limited to Modbus PLCG and Modbus CLM.

Improve Communications

Protocol emulations and interfaces to host computers via the microprocessor-based MCG 3221 Protocol Convertor will ensure complete connectivity. Bi-directional communications allow the host (on or off-site) to send commands directly to the various L&J level gauges. This allows for on-demand verification of product level, interface level, product density, and equipment self-tests. Performance is optimized as background operation occurs to the inventory management system.

Versatility

The MCG 3221 also has a "watchdog" feature. This internal system restarts the system processor in the case of a fatal error or system malfunction. One of the nicest features of the MCG 3221 is that L&J Engineering can accommodate whatever it is you may need. Most of the MCG 3221 PLCG Interfaces are custom made so that every requirement you have is fulfilled. The MCG 3221 L&J system adjusts to the way you do business now and the way you will do business tomorrow.

Applications

Host reads either discrete inputs or input registers, and outputs to output coils or output registers

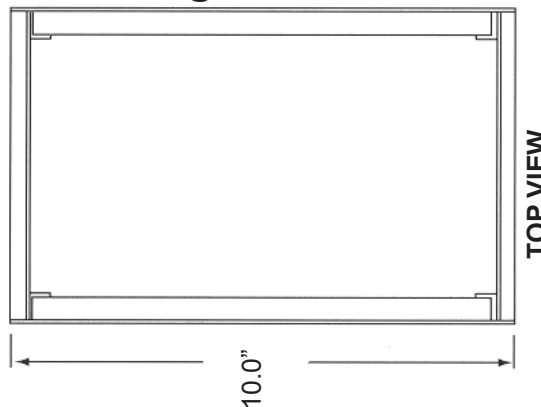
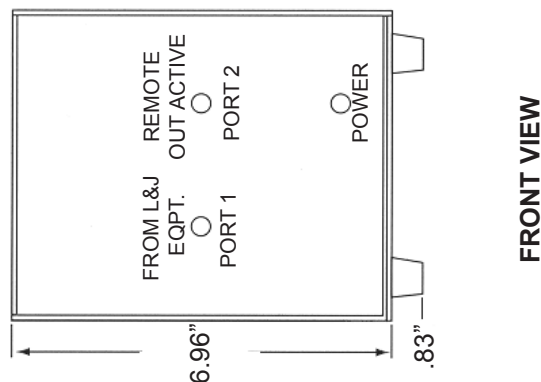
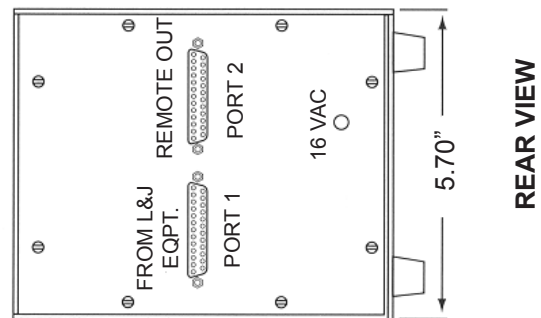
Communicates between the host system and L&J's Tankway measurement and control system

SPECIFICATIONS

Configuration:	Single Channel (HOST/PLCG) Multi-Channel (optional)	
Data Memory:	Coils	4096
	Input Status Points	4096
	Holding Registers	2048
	Input Registers	2048
Interfacing:	Host Port Protocol: L&J PLCG Port Protocol: Modbus PLC Other Options available	
Connections:	Host	RS232C, DB-25, 2 wire RS485 Available "Tankway" Available
	PLCG	RS232C, DB-25, 2 wire RS485 Available
Enclosure:	19" Rack mount or table top	
Power:	110 VAC 1 AMP Standard 220 VAC .5 AMP Optional	
PLCG Based On:	Gould Modbus Protocol Standard PI-M Bus 300 Rev. B Honeywell TDC 3000 PLCG standard Rev. 3	

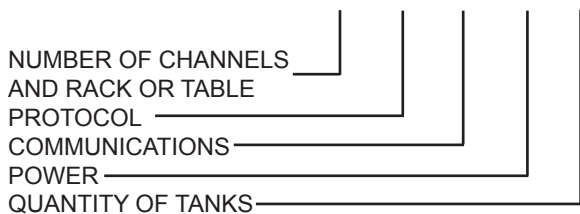
All designs subject to change. Certified dimensions and specifications available upon request.

DIMENSIONS (Table Mount Shown)

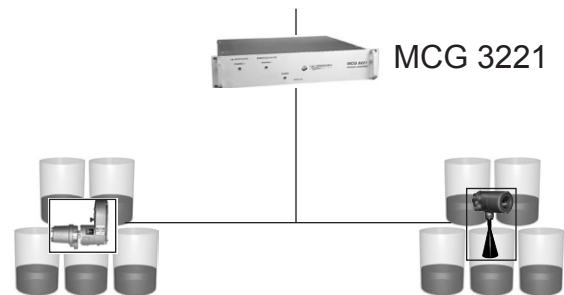


INFORMATION REQUIRED TO ORDER:

MCG 3221 - AB - CD - EF - GH - IJ



TO HOST SYSTEM



MCG 3221 CUSTOM PROTOCOL CONVERTOR

MODEL NUMBER SELECTION:

The model number has a base number, **MCG 3221** followed by 10 digits. These digits represent 5 sets of option tables.

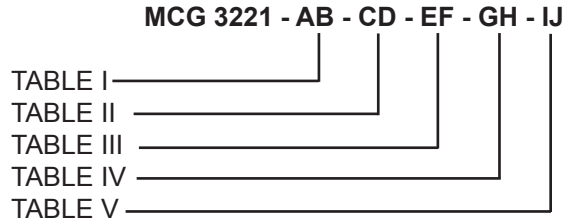


TABLE I - NUMBER OF CHANNELS AND RACK OR TABLE

- AB**
- 00 - None
 - 11 - 1 Channel/Rack
 - 12 - 2 Channels/Rack
 - 21 - 1 Channel/Table
 - 22 - 2 Channels/Table
 - 29 - 1 Channel/4 Field & Power/Rack
 - 32 - 1 Channel/1 Field & Power/Rack
 - 41 - 1 Channel Integral to 3900
 - 42 - 2 Channels Integral to 3900

TABLE II - PROTOCOL

- CD**
- 01 - CLM (Modbus)
 - 02 - PLCG (Modbus)
 - 03 - Allen Bradley
 - 04 - Special
 - 05 - Rosemont HTG
 - 06 - Foxboro I/A Modbus Gateway
 - 07 - PLCG (Modbus) MCG 3900

TABLE IV - POWER

- GH**
- 01 - 110 VAC
 - 02 - 220 VAC

TABLE III - COMMUNICATIONS

- EF**
- 11 - RS 232
 - 12 - RS 485

TABLE V - QUANTITY OF TANKS (Software Capacity Only)

- IJ**
- 01 - 0-24
 - 02 - 25-74
 - 03 - 75-149
 - 04 - 150 to 225