

MC 608 A

Electromagnetic Transmitter

Description

The MC 608 A Transmitter is our most versatile unit capable of displaying rate and total flows as well as providing multiple digital and analog outputs. The MC 608 A Transmitter has been designed with the purpose of meeting all the requirements of modern water management systems. It supports extended functions which make it perfectly suitable for measuring and billing in civil, industrial and agricultural sectors and for flow measurement in residual water treatment. The 608 transmitter is also ideally suited for use in Chemical, F&B, Mining, Agriculture and many more industries where flow needs to be accurately measured. The unit can be configured either directly using the 4 programming buttons on the front of the display, or using the Windows®-based programming software interfacing via IrDA or MODBUS RTU on RS485. The new generation transmitter extends the use of electromagnetic flowmeters to water distribution networks, allowing a better control of flows at every point of installation. Installations in irrigation systems guarantee that each farmer pays for the water used, and allows optimization of water management.

Features

- 12/24 VAC or 90-264 VAC power
- Compatible with all standard FTI Electromagnetic standard sensors
- Built-in data logger
- Large graphics display with totalizer indications greater than 8mm
- Total management of power consumption with automatic sleep function
- Batteries can be replaced on site
- IrDA interface for programming communication with laptop
- MODBUS RTU interface for communication on RS485
- Submersible IP68 case available
- IP68 rated to a depth of 1.5 meters
- All configuration, totalizer and data logger values are stored even in case of power failure
- Multi-level password system to guarantee accessibility and confidentiality



MC 608 A Transmitter

Specifications

Transmitter Installation	Integral or remote versions up to 100 meters
Transmitter Case	Aluminum epoxy painted IP68, with toughened glass
Electrical Connections	Cable glands, plastic, M20X1.5
Connection Cables	Dedicated supplied by FTI
Power Supply	90 to 264 VAC, 12/24 VAC



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Specifications continued

Outputs (Optoisolated)	Active analog output 4-20 mA* Digital output in active frequency 0-10 kHz* Digital pulse output maximum 1000 Hz dutycycle max 50%. *requires external power
Serial Communication	MODBUS RTU interface on RS485 IrDA interface for communicating with laptop or handheld communicator, and dedicated SW for programming, displaying and downloading data
Temperature Range	Process » -10°C to 70°C (14°F to 158°F) Ambient » -20°C to 60°C (-4°F to 140°F) Storage » -30°C to 70°C (-22°F to 158°F)
Accuracy	±0.2% of reading (over calibrated range)
Repeatability	±0.1% of reading
Sampling Frequency	Programmable 5,3,1,1/15,1/30, 1/60, 1/120, 1/240, 1/480 Hz
Measurement Stabilization Time	3 seconds
Display	Graphic LCD - 128x64 pixels, 50x25mm visual area Backlit white color, programmable back-lighting Simultaneous display of a counter + instant variable + status flags Counters with 8 mm high characters for reliable and easy reading Programmable display content



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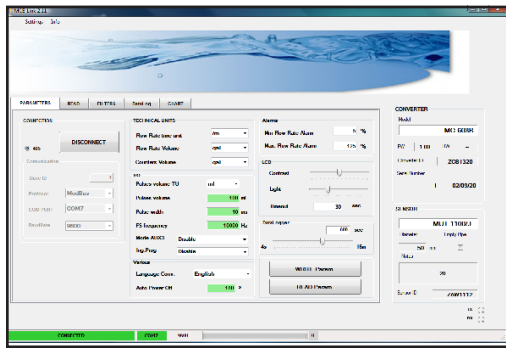
Specifications continued

Programming	With push buttons on board of transmitter By IrDA interface and laptop with dedicated software By RS485 and MODBUS RTU protocol
Units	Selectable volume units: in3, ft3, gal, USgal, bbl, oz, ml, cl, dl, l, dal, hl, m3 for counters, flow indication, pulse output
Reference Time	Selectable time units: s, m, h, days
Process Data Logger	4 MB flash memory, 200,000 lines of data (one line includes: instant flow, 2 counters, date, time, PCB temperature)
Diagnostic Data Logger	64 kB EEPROM, 2,000 lines of data (one line includes: Date, time, PCB temperature, error codes, user actions with changes made). Tamper/reset Proof. Not programmable.
Electrical Conductivity	5 μ S/cm, 20 μ S/cm minimum for DI water
Velocity	-10 to 10 m/s
Approvals	The MC 608 A transmitter meets all the requirements established by the EC directives Electromagnetic compatibility » Directive 2004/108/EC, EN 61326-1:2006 Low voltage directive » Directive 2006/95/EC



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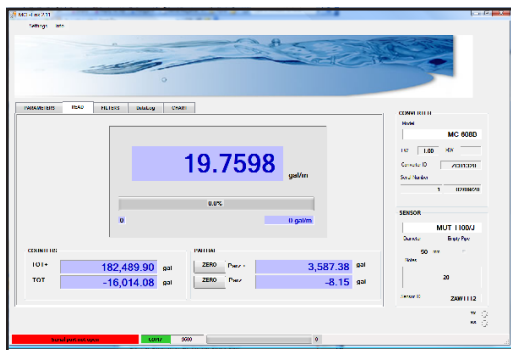
608 A Configuration Software



Configuration & Analysis Made Simple

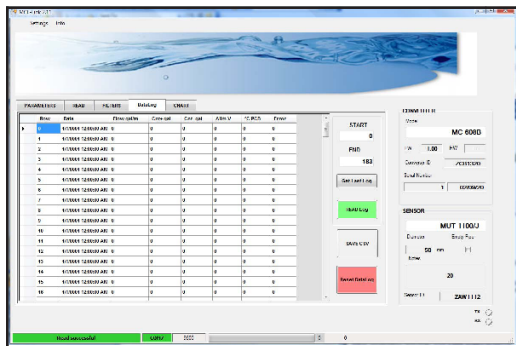
Configuration

Configuration of the 608 can be achieved through the 4 push buttons located on the front of the transmitter, or through the use of the PC based programming tool. All user configurable parameters are presented to the user on two (Parameters & Filters) intuitive configuration screens.



Display

Real time information can be displayed on the PC including flow rate, totals (forward and reverse) and partial totals - Partial totals can be easily reset through the PC interface.



Data Logger

The data logger records date, time, counter, instantaneous flow rate, PCB temperature and battery condition (if applicable). The data can be extracted in CSV format for additional analysis.



Trending & Analysis

Flow rate data can be easily graphed within the configuration software, providing a quick and easy window into the process.

