

MC 608A/B

Mains or Battery
Powered

Description

The **MC 608A/B transmitter** is capable of displaying rate and total flows as well as providing multiple digital and analog outputs.

The MC 608 A/B converter 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 battery powered version, 608-B, provides up to 10 years of battery life. The MC 608-B Transmitter is also ideally suited for use in **Chemical, Food & Beverage, Mining**, and many more industries where flow needs to be accurately measured.

The new generation converter extends the use of electromagnetic flow-meters to **water distribution networks**, allowing a better control of flows at every point of installation. Installation in a distribution system records the water used, with bidirectional recording allowing **optimization of water management** and leakage control.

Special Features

- Available in battery powered version (MC608B) or mains powered (MC608A).
- Battery powered version with a working life of up to 10 years (MC608B). Battery replaceable in field.
- Accuracy according to class 1 & 2 OIML R49.
- Compatible with all standard EuroMag Electromagnetic sensors
- Built-in data logger with fully programmable parameters.
- Large backlit graphics display, wake up with magnet swipe display.
- Total management of power consumption with automatic sleep function.
- IrDA interface for programming communication with laptop.
- MODBUS RTU interface for communication on RS 485.
- All configuration, totalizer and data logger values are stored even in case of power failure.
- Multi-level password system to guarantee accessibility protection.
- Submersible IP68 rating with remote mount.



Reference standards

The MC 608-A/B converter meets all the requirements established by the EC directives.

- ▶ Electromagnetic compatibility: Directive 89/336/EEC and EN61326-1:2006
- ▶ Low Voltage Directive : 2006/95/EC

Transmitter specification

Transmitter Installation	Integral or remote versions <ul style="list-style-type: none"> • MC608B up to 30 meters • MC608A up to 100 meters 	Programming	<ul style="list-style-type: none"> • With push buttons on board of converter • By IrDA interface and laptop with dedicated software • By RS485 and MODBUS RTU protocol
Transmitter Case	Aluminium epoxy painted IP67, with toughened glass	Units	Individually for selectable volume units : Standard = m3 for counters, flow indication, pulse output.
Electrical Connections	Cable glands, M20x1.5	Reference Time	Selectable time units : s, m, h, days
Power Supply	MC608A : 90 to 264VAC, 12/24 VAC/DC MC608B : Battery powered or 12/24VDC. Expected life at 0-50°C Internal battery pack 3-6 years. Internal & external battery pack 6 to 10 years.	Process Data Logger	4 MB flash memory, 200,000 lines of data (one line includes : instant flow, 2 counters, date, time, temperature).
Outputs (Optoisolated)	<ul style="list-style-type: none"> • Programmable digital pulse output maximum 1000 Hz duty cycle max 50%. • Active analog output 4-20 mA* • Digital output in active frequency 0-10 kHz* *requires external 24VDC power	Diagnostic Data Logger	64 kB EEPROM, 2000 lines of data (one line includes: Date, time, temperature, error codes, user actions with changes made). Tamper/reset Proof. Not programmable.
Serial Communication	<ul style="list-style-type: none"> • MODBUS RTU interface on 485 RS. • IrDA interface for communicating with laptop or hand held communicator, and dedicated SW for programming, displaying and downloading data. 	Electrical Conductivity	5 μ S/cm, 20 μ S/cm minimum for DI water
Temperature Range	Process : -10°C to 70°C Ambient : -20°C to 60°C Storage : -30°C to 70°C	Velocity	-10 to 10 m/s
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	<ul style="list-style-type: none"> • Graphic LCD - 128x64 pixels, 50x25mm visual area. • Backlit white color, programmable backlighting. • Simultaneous display of a counter + instant variable + status flags. • Counters with 8 mm high characters for reliable and easy reading. • Programmable display content. 		



DEECO V1AXI611

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