



AC powered Wafer EFM

Model MUT1000-MC608

The MUT1000 with MC608 is a mains powered electromagnetic water meter for use in district metering areas (DMA), water abstraction, and custody transfer measurement of potable water (MI-001, OIML R49), and many other applications. Unlike other water meters, the MUT1000 is a maintenance-free meter, offering a flexible wafer installation in a compact or remote mounted version. Thanks to the optimized

the MUT1000 can be installed virtually anywhere with minimal straight inlet or outlet runs. With optional pressure and temperature sensors, GSM/GPRS integrated modem and external power source, the meter is the perfect solution for pressure management systems. The highly robust structure, allows burial installation or the use in flooded areas. A full on-site verification without process interruption can be carried out using the Field Verificator service tool.



Features & Benefits

- No moving parts
- Neglectable pressure drop
- Long lasting stability and precision
- Zero maintenance
- Extremely sturdy structure
- High chemical resilience
- Wider range of measurement

Typical Applications

- District metering of potable water
- Distribution, municipal water
- Industrial waste water
- Industrial process liquids, muds and concretes
- Fiscal measures, custody transfer
- Irrigation
- Booster pump stations
- Lift stations

High performances to a low cost of ownership:

Capability to read flow velocities of 0.015 m/s (MID-001 OIML R49 certified), within Class 2 accuracy

Multiple outputs:

pulse, analog 4-20mA, Modbus, frequency, Hart protocol and programmable output

No data lost:

Data automatically stored in the internal EEPROM memory. Up to 100.000 lines of active datalogging

Information always available:

Add-on communication module GSM/GPRS automatically sends the information via SMS, e-mail or on a website portal www.euromagdata.com with personal ID and password. Accessible also from smart phones and tablets. Configurable FTP communication

Empty pipe detection:

Empty pipe electrode supplied as standard (≥ DN65). Empty pipe detection on measuring electrodes standard for all

Flow - pressure - temperature: all at the same time:

Add on modules of temperature and pressure readying make the MUT1000 with MC608 one of the most complete electromagnetic flowmeter available in the market

Easy management, easy programming:

A software is supplied with the unit to allow users to communicate with the MC608 via IRCOM port to any pc, lap top or windows tablet.

Certifications and compliance: OIML R49 (on request) / EX -IEC IECEx (on request and only separate version) / NSF ANSI61 (On model MUT1000US)

Always verified:

The Euromag FIELD VERIFICATOR is available for full on-site verification, without interruption of the process

All images in this catalog are for illustration only



Converter Specifications

Temperature	Ambient: -20 +60 C° (-4 +140 F) Media -25 80 C° (-13 +176 F) Storage -40 +70 C° (-22 +158 F)						
Flow Units	ml, cl, dl, l, dal, hl, m3, in3, ft3, gal, USgal, bbl, oz + Custom value						
Totalizers	5 (2 positive, 2 negative, 1 NET)						
Alarms and status	Status icon displayed and alarm logged in the datalogger						
Self diagnostic	Alarms available: excitation failure empty pipe on the 4th electrode high temperature	pulse overlapped measurement error					
External verification	Field verificator available for calibration verification and electronic status						
Software for communication and programming	Commissioning (equal settings of meters) - Data print for documentation - Data export (CSV file) - Firmware update - Read instant flowrate - Read and write all non-volatile parameters - Download internal datalogger - View instrument event logger						

Sensor Specifications

Pipe sizes inches/mm	1" - 12" Inch / DN25 - 300 mm					
Flanges Connections Available	EN1092-1, ANSI 150, ANSI 300, ANSI 600, ANSI 900, DIN 2501, BS 4504, AS 2129 (TABLE D - E - F), AS 4087, ISO 7005-1, KS 10K					
Maximum pressure	40 bar for diameters ≤ DN150 16 bar for diameters ≥ DN200					
Internal lining and liquid temperature	Internal lining: Liquid temperature: PTFE Standard -40 /+130°C (up to +180° on request) Ebonite -40°C / +80°C					
Protection Degree	IP68 (EN 60529) permanents submersion at 1.5m (4.92ft)					
Electrical connections	Cableglands M20 x 1.5 + terminal box + sealing resin					

The electromagnetic flowmeter designed for the toughest applications



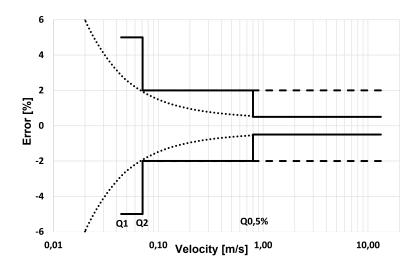






Measuring Accuracy

Each flowmeter is standard wet calibrated under reference conditions by direct volume comparison. The performance of the flowmeter is defined and documented in an individual calibration certificate. Accuracy 0,2% +/- 2mm/s (0,2% +/- 1mm/s on request)



Flow Rate

Size Q @ (m³/h)	DN25 1"	DN32 1¼"	DN40 1½"	DN50 2"	DN65 2½"	DN80 3"	DN100 4"	DN125 5"	DN150 6"	DN200 8"	DN250 10"	DN300 12"
Q1 Minimum Flow	0.08	0.08	0.128	0.2	0.32	0.504	0.8	1.280	2	3.2	5.04	8
Q2 Transitional Flow	0.128	0.128	0.205	0.32	0.512	0.806	1.28	2.048	3.2	5.12	8.064	12.8
Q3 Permanent Flow	10	10	16	25	40	63	100	160	250	400	630	1000
Q4 Maximum Flow (Short Time)	12.5	12.5	20	31.25	50	78.75	125	200	312.5	500	787.5	1250

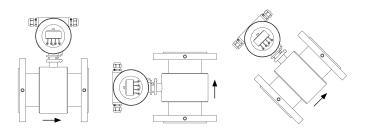


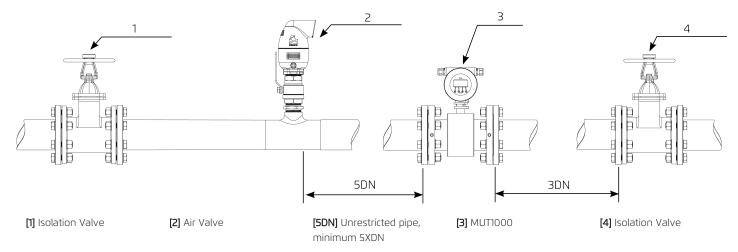
Installation Recommendations

- The water meter can be installed in any orientation without interfering with metrological performance.
- The arrow on water meter body must be in the same direction with the flow.

Irrigation

- Prior to installation, flush the line to remove debris.
- The water meter must be filled with water to operate.





[3DN] Unrestricted pipe, minimum 3XDN

