



Certificate No:
TAA00002Z6

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Flow Transmitter

with type designation(s)
Electromagnetic flowmeter MUT2200M sensor + MC608A converter

Issued to

EUROMAG INTERNATIONAL S.r.l.
Mestrino, PD, Italy

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft
USCG Federal Register 46 CFR part 162, subpart 162.060-30
Resolution MEPC.300(72) – Annex Part 3

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature	D
Humidity	B
Vibration	A
EMC	A
Enclosure	C/IP56 and D/IP68 (1.5 m)

Issued at **Høvik** on **2021-05-05**

This Certificate is valid until **2026-05-04**.

DNV local station: **Italy/Malta CMC**

for **DNV**

Approval Engineer: **Ståle Sneen**

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Marta Alonso Pontes
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Product description

EUROMAG electromagnetic flow meter for use in on-line applications.

Sensor: MUT2200M in sizes DN15 to DN800

Converter: MC608A

Power supply: 12/24V AC/DC

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

These sensors are typically used in the measure of potable or not potable water, industrial waste water, industrial process liquids, muds and concretes. Additional to the applicable class requirements for instrumentation, the flowmeter has been tested according to IMO G8 and USCG requirements for use in ballast water treatment systems.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, December 2019.

Applicable tests according to USCG Federal Register 46 CFR part 162, subpart 162.060-30.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE