

# TYPE APPROVAL CERTIFICATE

**This is to certify:**  
**that the Flow Sensor**

with type designation(s)  
**M3...M, PR1M**

issued to  
**Eletta Flow AB**  
**Segeltorp, Stockholms Län, Sweden**

is found to comply with  
**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application:

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

## Location classes:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
<b>M3...M</b>	<b>D</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>C</b>
<b>PR1M</b>	<b>D</b>	<b>B</b>	<b>B</b>	<b>n/a</b>	<b>B</b>

Issued at **Hamburg** on **2025-06-02**

This Certificate is valid until **2030-06-01**.

DNV local unit: **Finland CMC**

Approval Engineer: **Dariusz Lesniewski**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature

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 USD 300 000.

## Product description

### PR1M-SS paddle flow switch:

Wetted material: SS 316  
Sealing Material: FPM  
Cover material: stainless steel  
Max. pressure: 25 bar  
Protection class: IP 65  
Process connection: 25 mm thread (1" BSP or NPT) (through pipe wall)  
Pipe Sizes: DN50–DN250  
Switch: Microswitch SPDT 1-pole 2-way  
Rating nominal 250 VAC / 8 A  
Degree of protection: IP65

### M3...M-SS series differential pressure flow transmitter:

(models: M310M-SS, M325M-SS, M350M-SS)  
Pressure range: 10, 25 or 50 bar  
Process connection: M6x14 stainless steel screw (A2), DIN 912  
Cover material: stainless steel  
Media: water, oil, gas acc. to maker's specification  
Wetted material: stainless steel  
Power supply: 24 V DC nominal  
Output signal: 4-20 mA, RS485 MODBUS  
Electrical connection: connector 8-poles, connection cable PUR standard cable 2,5m (3x0,25mm<sup>2</sup>)  
Software/Firmware: Ver. 5.20-13.17  
Degree of protection: IP67

## Type Approval documentation

Test report: Intertek no. 2409583STO-201, dated 2025-03-26  
Test report: Intertek no. 2011715STO-201, dated 2025-04-06  
Test report: DELTA no. 625-20025-10-R0, dated 2025-04-16  
Data sheets: 30D1E26 (PR1), 61D1E26 (M3), Switch PR1/part no. 40-91066  
Drawings: no. 40-50174 Rev. A, no. 1810M3025 Rev. A  
Drawings: no. 03-00197-01 Rev. B, no. 9I104-0 Rev. F  
Manuals: 61D2E26 dated 2025-05-26 (M3-series), 30C2E26 (PR1-series)  
Design change notice Nr: 9 – Software change M3-series, dated 2013-11-15

## 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 rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

## Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

## 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



Job ID: **262.1-043002-1**  
Certificate no.: **TAA00003MD**

- 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