

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Flow Transmitter

with type designation(s)
MAG 5100 W (sensor), MAG 5000/6000 (transmitter)

Issued to

Siemens AG
Karlsruhe, Germany

is found to comply with
DNV GL rules for classification – Ships

Application :

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

Type	Temperature	Humidity	Vibration	EMC	Enclosure
MAG 5100 W (sensor)	D	B	B	B	C / IP 67
MAG 5000/6000 (transmitter)	B	B	A	B	C / IP 66

This Certificate is valid until **2021-08-20**.

Issued at **Hamburg** on **2016-08-21**

DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Dariusz Lesniewski**

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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.

Product description

The SITRANS F M flowmeters are suitable for measuring the flow of almost all electrically conductive liquids, pastes and slurries. The main applications can be found in:

- Water and waste water
- Chemical and pharmaceutical industries
- Food and beverage industries
- Power generation and utility

Model Name (sensor): **Sitrans F M MAG 5100 W**

Order No.: 7ME6520-**abc1x-2dAx-e**

ab	Flange Diameter	2Y DN 50 (2") 3F DN 65 (2½"); 3M DN 80 (3"); 3T DN 100 (4") 4B DN 125 (5"); 4H DN 150 (6"); 4P DN 200 (8"); 4V DN 250 (10") 5D DN 300 (12")
c	Flange Standard and Pressure rating	B, C, D, F, J, L, N
d	Code for the separate order of Transmitter	A
e	Transmitter kit	Z+ P0C MAG 5000/Display + Wall mounting bracket + Cable Gland M20. P0D MAG 5000/Display + Wall mounting bracket + Cable Gland NPT. P0G MAG 6000/Display + Wall mounting bracket + Cable Gland M20. P0H MAG 6000/Display + Wall mounting bracket + Cable Gland NPT

Model Name (transmitter): **Sitrans F M MAG 5000/6000**

Order No.: 7ME69**a0**-1AA10-**bAA0**

a	Type	1 = MAG 5000 (115...230V, 50...60Hz) 2 = MAG 6000 (115...230V, 50...60Hz)
b	Display	0 = without 1 = with

Accessoires

Communication Module for MAG 6000 transmitter	Profibus PA: FDK 085U0236
Wall mounting bracket unit	With M20x1.5 cable glands: A5E36699697 With 1/2" NPT cable glands: A5E36699699

Place of manufacture

Siemens S.A.S
I IA SC MF-H
1, chemin de la Sandlach B.P. 60189
67506 Haguenau Cedex, FRANCE

Job Id: **262.1-022272-1**
Certificate No: **TAA00000JW**

Application/Limitation

Cables are not included in this type approval.

Flowmeter uncertainty according to manufacturer's specification to be observed.

Type Approval documentation

Tests carried out

Applicable tests according to Class Guideline DNVGL CG-0339, November 2015

Marking of product

The products to be marked with:

Model name

Order No.

Serial No.

Manufacturer name: Siemens A/S Flow Instruments, 6430 Nordborg Denmark

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 at least once during the validity and at renewal of this certificate.

END OF CERTIFICATE