



EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

In accordance with Article 10.1 of EU Regulation 391/2009

Certificate No:
MRA000003C
Revision No:
1

This Certificate is issued to

SIKA Dr. Siebert & Kühn GmbH & Co. KG
Kaufungen, Hessen, Germany

for

Flow Gauges/Transmitters

with type designation(s)

VMI

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Sensors

EU RO Mutual Recognition Technical Requirements for Flow Gauges/Transmitters

Intended service

Electromagnetic Flowmeters intended for unidirectional measurement of conductive liquids.

Location classes:

Temperature [°C]: 5 to 70

Vibration: ±1.6 mm / 4.0 g

EMC: All locations excluding bridge and open deck

IP Code: IP65

This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2031-04-27**.

Issued at **Hamburg** on **2026-04-15**

DNV local unit: **Hamburg**

Approval Engineer: **Holger Jansen**



for **DNV**

Digitally signed by: Dariusz Lesniewski
Location: DNV SE, Germany

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.

Product description

Magnetic inductive flow sensor induQ® VMI

Electromagnetic flowmeter for unidirectional measurement of conductive liquids

The device combines a sensor and a transmitter in one housing.

Process connections:	Threaded connection		
Thread dimensions	G¼-ISO 228 male, ¼" NPT	G½-ISO 228 male, ½" NPT	G¾-ISO 228 male ¾" NPT
Power supply:	12 ... 24VDC		
Output signal:	4-20mA, 0-10V, Pulse/Frequency		
Degree of protection:	IP65		
Firmware version:	4.07		

Magnetic inductive flow sensor induQ® VMI

Order code VMI aa b c d e f g h i jjj

aa	Nominal diameter	02, 07, 10	
b	Process connection	A, B, C, D, E, F, G, H, I	
c	Colour	S, L, T, G	
d	Brand (with or without logo)	S, N	
e	Sealing	0	
f	Material	0	
g	SIKA internal type designator	Always „Y“	
h	Type of output at pin 4	N, P, G (frequency/pulses)	
i	Type of 2 nd output	X, U, I	
jjj	Measuring range designator	any triple letter 1XX ... 9XX AXX ... ZXX	and /or number combinations* X {0 ... 9}

*: Not covered by present certificate 0XX (000 to 099)

Manufactured by

SIKA Dr. Siebert & Kühn GmbH & Co. KG
 Struthweg 7 – 9
 34260 Kaufungen

Application/Limitation

The Type Approval covers all hardware listed under Product description. The sensors are intended for use in control and monitoring systems subject to classification.

InduQ / VMI devices do not offer isolation between Frame Ground (FG/PE) and Signal Ground (GND/0V). 24 VDC power needs to be supplied via a Safety Extra Low Voltage (SELV) and Limited Energy Circuit or SELV and Class II (double insulated) DC power supply. Pulse-, Voltage- and current signals coming from a VMI device may only get connected to galvanic insulated input ports.

Type Approval documentation

Name	Number	Date
Operation Manual © SIKA • Ba_VMI •	Rev. 1.1	03 / 2026
Datasheet_Magnetic_inductive_flow_sensors_VMI	Rev. 1.1	03 / 2026
Datasheet_Magnetic_inductive_flow_sensors_VMI (US)	Rev. 1.1	03 / 2026
Durchflusssensor_VMI02-Y_MID-0820_00339720	b	11 / 2019
Durchflusssensor_VMI07-Y_MID-0822_00340169	c	11 / 2019
Durchflusssensor_VMI10-Y_MID-0902_00350671	a	03 / 2021
Schematic Diagram Main Board 400-505-03_f_E6	f	12 / 2020
MRTAC_test-plan_VMI_V1R04	Rev. 4	07 / 2020
DE20-00091-BE-Flow_Sensor_(SIKA)_Rev1	Rev. 1	02 / 2021

20DE-00752-BE-IP 65 Flow Sensor (SIKA) Rev1	Rev. 1	03 / 2021
072361.226.20_Test Report_PAConsult GmbH_Magnetic Inductive Flow Sensor_V3.0.pdf	V3.0	04 / 2021
TestReport_PressureResistance_InduQ-VMI.pdf		04 / 2021
EU RO MR Type Approval PQA Scheme Periodical Assessment Checklist		03 / 2026

Marking of product

The products to be marked with:

- Manufacturer name [SIKA]
- Model name [VMI]
- Serial number
- Power supply

Other Conditions

The sensors have been verified for compliance with EU Mutual Recognition Technical Requirements for SENSORS version 0.6, dated 2025-01-01.

Pressure test was provided according to DIN EN 12266-1.

Cable are not part of certification

Environmental test parameters

Temperature	B	+5°C ~ +70°C	IEC 60068-2-1/-2-2
Humidity	B	93% to 98% RH + 55°C (48 h)	IEC 60068-2-30 Test Db
Vibration	B	± 1.6mm / ± 4.0g	IEC 60068-2-6 Test Fc
EMC	A*		IACS UR E10 – Rev. 7
Enclosure	B	IP65	IEC 60529

Note: A* All locations except bridge and open deck

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 annually and at renewal of this certificate.

END OF CERTIFICATE

Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA);.

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).