

OIML Member State
The Netherlands

Number R117/2019-A-NL1-21.12
Project number 2515858
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Issuing authority
Person responsible: NMi Certin B.V.
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Applicant
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Manufacturer
ABB AG
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Identification of the certified type
A **measurement device** (Coriolis sensor)
Type: FCx450 + FCT450 (see table 1 for the meaning of x)

Characteristics
See page 2 and further

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 117:2019 "Dynamic measuring systems for liquids other than water"

Accuracy class
0,3 and 0,5

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of

Issuing Authority
NMi Certin B.V., OIML Issuing Authority NL1
10 January 2022

Certification Board

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This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

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the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMI-15200437-03 dated 10 July 2017 that includes 129 pages;
- No. NMI-15200437-04 dated 10 July 2017 that includes 17 pages;
- No. NMI-1901471-01 dated 29 June 2018 that includes 66 pages;
- No. NMI-2515858-01 dated 10 January 2022 that includes 171 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

The construction of the measuring instrument is recorded in the Documentation folder no. TC8761-3.

Table 1 General characteristics

Maximum pressure	10 bar(g)
Accuracy class	0,3 and 0,5
Environmental classes	M3 / E2+E3 ¹
Ambient temperature range	-10 °C / +70 °C
Product temperature range	-10 °C / +70 °C for mass flow, volume flow and density
Intended for the measurement of	Liquid petroleum and related products, liquids food and chemical products in liquid state with density between 700 and 1100 kg/m ³ .
Power supply voltage	AC version: 100 ... 240 V AC, 50/60 Hz; DC version: 11 ... 30 V DC.
Software identification	Version number: 01.07.00 Checksum: 0xBAD5

- x can be either B or H. This indicates whether the device is suitable to use for non-hygienic (B) applications or hygienic (H) applications. The devices are identical only H is constructed of polished wetted sensor parts

The complete family of meter consists of one family (which are of similar construction) and have the following flow characteristics indicated in table 2.

¹ E3 is only applicable for the DC version and interruptible measuring systems with suppressed vehicle battery power supply.

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Table 2 General characteristics of the family of instruments

Meter size	15	25	50	80	100	150
Minimum flow rate [kg/h]	365	1620	4550	14500	23000	32000
Maximum flow rate [kg/h]	6500	27000	67000	145000	290000	420000
MMQ [kg]	5	20	50	100	200	500
Maximum pressure [bar(g)]	10					
Diameter in/outlet [mm]	15	25	50	80	100	150