



OIML Certificate

OIML Member State
The Netherlands

Number R117/2019-A-NL1-22.04 revision 1
Project number 3937392
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant

ABB AG
Anna-Vandenhoeck-Ring 5
37081 Göttingen
Germany

Manufacturer

ABB AG
Schillerstrasse 72
32425 Minden
Germany

Identification of the certified type

A **measurement device** (Coriolis sensor + transducer) intended to be used as a part of an interruptible or non- interruptible dynamic measuring system for liquids other than water.

Manufacturers mark:

ABB

Type:

FCx150 (see table 1 for the meaning of x)

Characteristics

See following pages

This OIML Certificate is issued under scheme A.

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

R 117-1: 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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
4 June 2026

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- 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. TC8760-3.

Table 1 General characteristics

Type	FCx150 ^[1]
Measuring principle	Coriolis
Accuracy class	0,3 and 0,5
Environmental classes	M3 / E2
Ambient temperature range	-10 °C / +70 °C
Product temperature range	-10 °C / +70 °C for mass flow, volume flow and density
Maximum pressure	10 bar(g)
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 .
Maximum viscosity	9,0 mPa·s
Power supply voltage	DC version: 11 ... 30 V DC.
Software identification	See details in table 3

Remarks:

^[1] 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



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

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
Diameter in/outlet [mm]	15	25	50	80	100	150

Table 3 Software identification

Software versions	CRC Checksum	Software versions	CRC Checksum
01.03.00	0XA727	01.09.00	0xB838
01.04.02	0x226c	01.09.02	0xDF43
01.05.00	0xF39D	01.11.00	0xB287
01.06.00	0x18BB	01.12.00	0xBBEC
01.07.00	0xBAD5	01.12.01	0xD345
01.08.01	0xA06E		

The metrological software is identified by the software version and/or checksum, which can be checked by scrolling the menu to: **Device info** → **Transmitter** → **Transmitter version**.

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	8 February 2022	-
1	04 June 2026	Addition of software versions. 01.08.01; 01.09.00; 01.09.02; 01.11.00; 01.12.00 and 01.12.01