OIML Certificate

OIML Member State
The Netherlands

Number R117-1/2007-B-NL1-18.03 revision 2
Project number 2327015

Issuing authority Person responsible:	NMi Certin B.V. C. Oosterman
Applicant and Manufacturer	Endress + Hauser Flowtec AG Kägenstrasse 7 CH-4153 Reinach Switzerland
Identification of the certified type	A **measurement transducer** Type: Promass Q 300 DNxxx[1]; Promass Q 500 DNxxx[1]
Characteristics	See page 2 and further

This OIML Certificate is issued under scheme B

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 117-1 (2007) "Dynamic measuring systems for liquids other than water"

Accuracy class 0.3 / 0.5 / 1.0 / 1.5

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.

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

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[1] With xxx denoting the size of the Promass Q measurement sensor.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**
8 February 2019

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Head Certification Board

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

- NMi-15200323-01 dated 25 October 2016 that includes 94 pages;
- NMi-16200475-01 dated 22 December 2016 that includes 247 pages;
- NMi-16200475-02 dated 22 December 2016 that includes 16 pages;
- NMi-1901185-01 dated 1 November 2017 that includes 269 pages;
- NMi-1901704-01 dated 31 August 2018 that includes 17 pages.

Characteristics of the flow transmitter
In table 1, the general characteristics of the measuring instrument are presented.
The construction of the measurement transducer is recorded in documentation folders TC7149-7 for the measurement sensor and TC10822-2 for the electronics.

Table 1 General characteristics of the Promass Q measurement sensor

Sensor size	DN25	DN50	DN80	DN100
Maximum flow rate [t/h]	20	80	200	400
Minimum flow rate [t/h] [2]	0.45	2	6	14
Minimum flow rate [t/h] [3]	0.225	1	3	7
Minimum Measured Quantity [kg]	10	20	100	200
Maximum pressure	100 bar			
Density range	400…1400 kg/m^3.			
Maximum Viscosity	1000 mPa·s			
Accuracy class	0.3; 0.5; 1.0 and 1.5			
Environmental classes	M3 / E2 / H3			
Ambient temperature range	-40 – +55 °C			
Product temperature range	-10 – +90 °C for mass, density and volume measurement			
	-200 – +90 °C for mass measurement			
Intended for the measurement of	Oil and oil products, chemicals, potable liquids and liquefied gases under pressure.			

[2] For Accuracy Class 0.3 and 0.5
[3] For Accuracy Class 1.0 and 1.5

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Table 2 General characteristics of the Promass 300 and Promass 500 electronics

Environmental classes	M3 / E2 / H3		
Ambient temperature range	-40…+55 °C; condensing humidity		
Power supply voltage	24 VDC; 100…240 VAC; 50…60 Hz 24 VDC/100…240 V AC;-/50…60 Hz		
Software identification	Software version	Checksum	
		Modbus	Hart
	01.00.02	0xE87F	0x321F
	01.01.01	0xA476	0x977D
	01.01.02	0x2AAB	0xED44
	01.01.03	0x6A37	0x86FC
	01.01.04	0x6D79	0x0674
	01.02.00	0x5645	-

The Promass 300 and Promass 500 flow transmitter is solely to be used in combination of dynamic mass meters (Coriolis meters) of brand Endress + Hauser.

Certificate history:
This revision replaces the previous versions.

Revision	Date	Description of the modification
Initial	10 September 2018	-
1	9 October 2018	Software version 01.02.00 added.
2	8 February 2019	Software version 01.01.04 added.