

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate No.
R49/2006-DE1-08.03
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name: Physikalisch-Technische Bundesanstalt
Address: Bundesallee 100, 38116 Braunschweig
Person responsible: Dr. Gudrun Wendt

Applicant

Name: Endress + Hauser Flowtec AG
Address: Kägenstrasse 7, 4153 Reinach BL 1
Switzerland

Manufacturer of the certified type is the applicant.

Identification of the certified type

Electromagnetic flow meter with electronical register.
Type: Promag 51 P/W

Further characteristics see page 3.

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

R49-1 (Edition 2006) Metrological and technical requirements
R49-2 (Edition 2006) Test methods
R49-3 (Edition 2006) Test report format

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

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The conformity was established by the results of tests and examinations provided in the associated Report No. PTB-1.5-4036163, Revision 1 (93 pages).

The Issuing Authority

Dr. Gudrun Wendt
Head of Department

20.01.2012

The OIML Member

Dr. R. Schwartz
Head of Division

20.01.2012

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Report(s) is not permitted, although either may be reproduced in full.

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Identification of the certified type - page 1 continued

Type details Promag 51 P/W

Nominal diameter	Q ₃ [m ³ /h]	Q ₄ [m ³ /h]	Q ₃ /Q ₁	Q ₂ /Q ₁
DN 15	6,3	7,875	25; 31,5; 40; 50; 63; 80; 100; 125; 160	1,6
DN 25	16	20		
DN 32	25	31,25		
DN 40	40	50		
DN 50	63	78,75		
DN 65	100	125		
DN 80	160	200		
DN 100	250	312,5		
DN 125	400	500		
DN 150	630	787,5		
DN 200	1000	1250		
DN 250	1600	2000		
DN 300	2500	3125		
DN 350				
DN 400	4000	5000	25; 31,5; 40; 50; 63; 80; 100	
DN 500	6300	7875		
DN 600				
DN 700				
DN 800				

The measuring system consists of a transmitter and a sensor. Two versions are available:

- Compact version: transmitter and sensor form a single mechanical unit,
 - Remote version: transmitter and sensor are installed separately.
- (Sensor Promag P: DN 15 ... DN 600, PFA or PTFE lining),
(Sensor Promag W: DN 25 ... DN 800, hard rubber or polyurethane lining).

Accuracy class: 2
Temperature class: T50
Environmental class: B, C and I
Electromagnetic environment: E2 (industrial use)
Maximum admissible temperature: +50 °C
Maximum admissible pressure: 5,2 MPa (52 bar)
Orientation: H and V (horizontal and vertical)
Minimum straight length of inlet pipe: 5 x DN
Minimum straight length of outlet pipe: 2 x DN
Power supply: 85...260 V AC, 45...65 Hz
20...55 V AC, 45...65 Hz
16...62 V DC