



*Ministero dello Sviluppo Economico*

DIREZIONE GENERALE PER IL MERCATO, LA CONCORRENZA, IL CONSUMATORE, LA VIGILANZA E LA NORMATIVA TECNICA  
Divisione XV - Strumenti di misura e metalli preziosi

**Member State of OIML**

**Italy**

**OIML Certificate No.**

**R49/2006-IT1-14.01**

**OIML BASIC CERTIFICATE OF CONFORMITY**

**Issuing Authority**

Name: Ministero dello Sviluppo Economico  
Direzione generale mercato, concorrenza, consumatori,  
vigilanza e normativa tecnica  
Divisione XV - Strumenti di misura e metalli preziosi  
Address: Via Sallustiana, 53 - 00187 Roma (RM) (I)  
Person responsible: Anna Signore, Head of Division XV

**Applicant**

Name: ENDRESS + HAUSER FLOWTEC AG  
Address: Kägenstrasse 7, 4153 Reinach BL1 Switzerland

**Manufacturer**

Name: ENDRESS + HAUSER FLOWTEC AG  
Address: 35, rue de l'Europe F-68700 Cernay - France  
or  
ENDRESS + HAUSER FLOWTEC AG  
Kägenstrasse 7, 4153 Reinach BL1 - Switzerland

**Identification of the certified type** (*further characteristics: see page 3*)

Water meter intended for the metering of cold potable water and hot water

**Designation of the module**

Type designation: PROMAG W800 (DN25 up to DN800)

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):

- R 49-1 (Edition 2006) Metrological and technical requirements
- R 49-2 (Edition 2006) Test methods
- R 49-3 (Edition 2006) Test report format

For accuracy class: 2

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



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

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

Report number: PTB-1.5-4036163, dated 19/01/2012 that includes 93 pages  
Revision 1 (Sensor)

Issued: Physikalisch-Technische  
Bundesanstalt PTB

Test Report: CH-3004937200-10 dated 14/02/2013 that includes 04 pages  
(only Static Magnetic Field Test  
performed in Cernay) (Sensor +  
Converter)

Issued: ATLab LAT n° 175 accredited  
by Accredia

Test Report nr. E12177101 (Only dated 29/11/2012 that includes 18 pages (plus  
Converter) annexes)

Issued: CMC Centro Misura  
Compatibilità S.r.l. LAB N° 0168  
Accredited by Accredia

Test Report nr. R11096701\_rev30 (Only dated 13/03/2012 that includes 38 pages (plus  
Converter) annexes)

Issued: CMC Centro Misura  
Compatibilità S.r.l. LAB N° 0168  
Accredited by Accredia

**Certificate history :**

<b>Issue no.</b>	<b>Date</b>	<b>Description of the modification</b>
01	25/07/2014	First Issuing

**The Issuing Authority**

**Head of Division**

*Anna Signore*

**The OIML Member**

*Paolo Francisci*

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



Identification of the certified pattern – page 1 continued

### Description of the type:

The type of water meters PROMAG W800 covers the nominal diameters in the range from DN 25 up to DN 800 and includes 18 nominal diameters.

### Measuring principle:

The conductive medium flows through a magnetic field which induces a voltage signal between the electrodes that is proportional to the mean flow velocity (Faraday law). Flow rate is related to flow velocity and pipe cross sectional area. The converter (electronic unit) controls the magnetic field parameters, acquires the electrode signal, calculates and displays the flow rate measure.

### Water meter is composed by:

Sensor (pipe in which the liquid flow through): PROMAG W (DN 25 up to DN 800), only full welded carbon steel sensor housing.

Reference: OIML CERTIFICATE OF CONFORMITY N° R49/2006-DE1-08.03 Revision 1 dated 20/01/2012.

Converter (electronic part for signals management): ML255

Reference: OIML CERTIFICATE OF CONFORMITY N° R49/2006-IT1-13.01 dated 16/09/2013

### Technical specifications:

DN	Q3	Q4	Position	Disturbance profile	T	R=Q3/Q1	L	Resolution	PN	Accuracy Class	Climatic Environment Class	Electromagnetic Environment
mm	m <sup>3</sup> /h	m <sup>3</sup> /h			°C		mm	L	MPa	OIMLR49		
25	16	20	H-V	U0-D0	50	160÷400	200	0,1	5,2	2	B-C	E1/M2
32	25	31,3	H-V	U0-D0	50	160÷400	200	0,1	5,2	2	B-C	E1/M2
40	40	50	H-V	U0-D0	50	160÷400	200	0,5	5,2	2	B-C	E1/M2
50	63	78,8	H-V	U0-D0	50	160÷400	200	1	5,2	2	B-C	E1/M2
65	100	125,0	H-V	U0-D0	50	160÷400	200	1	5,2	2	B-C	E1/M2
80	160	200	H-V	U0-D0	50	160÷400	200	2	5,2	2	B-C	E1/M2
100	250	312,5	H-V	U0-D0	50	160÷400	250	2	5,2	2	B-C	E1/M2
125	400	500	H-V	U0-D0	50	160÷400	250	5	5,2	2	B-C	E1/M2
150	630	787,5	H-V	U0-D0	50	160÷400	300	5	5,2	2	B-C	E1/M2
200	1000	1250	H-V	U0-D0	50	160÷400	350	10	5,2	2	B-C	E1/M2
250	1600	2000	H-V	U0-D0	50	160÷400	450	10	5,2	2	B-C	E1/M2
300	2500	3125	H-V	U0-D0	50	160÷400	500	10	5,2	2	B-C	E1/M2
350	2500	3125	H-V	U0-D0	50	160÷400	550	10	5,2	2	B-C	E1/M2
400	4000	5000	H-V	U0-D0	50	160÷400	600	10	5,2	2	B-C	E1/M2
500	6300	7875	H-V	U0-D0	50	160÷400	650	10	5,2	2	B-C	E1/M2
600	6300	7875	H-V	U0-D0	50	160÷400	780	10	5,2	2	B-C	E1/M2
700	6300	7875	H-V	U0-D0	50	160÷400	910	10	5,2	2	B-C	E1/M2
800	6300	7875	H-V	U0-D0	50	160÷400	1040	10	5,2	2	B-C	E1/M2