



Product certificate K96046/02

Issued 2021-03-15

Replaces K96046/01

Page 1 of 4

Water meters

STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

Endress + Hauser B.V

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline

BRL-K618: "Water meters" dated 2018-01-15 and **BRL-K618 [A1]** dated 2020-07-07

which covers the requirements of

EN-ISO 4064-1: 2017: "Water meters for cold potable water and hot water - Part 1: Metrological and technical requirements".

Ron Scheepers
Kiwa

Publication of this certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

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Manufacturer

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**Certification process
consists of initial and
regular assessment of:**

- quality system
- product

Water meters

PRODUCT SPECIFICATION

The products mentioned below belong to this technical approval-with-product certificate

Promag W400, straight measuring tube, accuracy class 2

Nominal Diameter	Q ₃ [m³/h]	Q ₃ /Q ₁	Q ₂ /Q ₁	Q ₄ /Q ₃
DN 25	16	160	1,6	1,25
DN 32	25			
DN 40	40			
DN 50	63			
DN 65	100	200		
DN 80	160			
DN 100	250			
DN 125	400	250		
DN 150	630			
DN 200	1.000			
DN 250	1.600			
DN 300	2.500			
DN 350				
DN 375	4.000			
DN 400				
DN 450				
DN 500	6.300			
DN 600		125		
DN 700		100		
DN 750				
DN 800				

Promag W400, conical measuring tube, accuracy class 2

Nominal Diameter	Q ₃ [m³/h]	Q ₃ /Q ₁	Q ₂ /Q ₁	Q ₄ /Q ₃
DN 50	40	630	1,6	1,25
DN 65	63			
DN 80	100			
DN 100	160			
DN 125	250			
DN 150	400			
DN 200	630			
DN 250	1.000			
DN 300	1.600			

Promag W400, conical measuring tube, accuracy class 1

Nominal Diameter	Q ₃ [m³/h]	Q ₃ /Q ₁	Q ₂ /Q ₁	Q ₄ /Q ₃
DN 50	40	315	1,6	1,25
DN 65	63			
DN 80	100			
DN 100	160			
DN 125	250			
DN 150	400			
DN 200	630			
DN 250	1.000			
DN 300	1.600			

Water meters

Accuracy class 1	$\pm 1\%$ ($Q_2 \leq Q \leq Q_4$)		
	$\pm 3\%$ ($Q_1 \leq Q < Q_2$)		
Accuracy class 2:	$\pm 2\%$ ($Q_2 \leq Q \leq Q_4$)		
	$\pm 5\%$ ($Q_1 \leq Q < Q_2$)		
Temperature range	0,1°C to 50°C		
Pressure range	0,3 bar (0,03MPa) to 52 bar (5,2MPa)		
Mounting position	Horizontal (H) or Vertical (V)		
Mechanical environment	M2		
Climatic environment	- 40°C to 55°C, Condensation possible		
Flow disturbance		straight measuring	conical measuring
		Tube	tube
	inlet run	U5 (>5 x DN)	U0 (0 x DN)
	outlet run	D0 (≥ 2 x DN)	D0 (0 x DN)
Electromagnetic environment	E2		

Fitness for contact with drinking water

This product is approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation" dated 01-07-2017; published in the Government Gazette).

These hygienic aspects are based on two main criteria. The product shall permanently comply with:

- The product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa approval procedure for the hygienic aspects;
- Specific product requirements for the hygienic aspects.

The recipe and specific product requirements are laid down in the for confidentiality reasons undisclosed 'appendix hygienic aspects' to this certificate.

MARKING

The Kiwa®-mark products are marked with the word mark "KIWA" 

Place of the mark: on the outside of the water meter

Compulsory specifications:

- Unit of measurement: (m³);
- Numerical value of Q_3 ;
- Ratio Q_3/Q_1 , preceded by "R", i.e. "R160";
- Ratio Q_2/Q_1 , (where it differs from 1,6);
- MAP (where it differs from 1 MPa (10 bar);
- Direction of flow by an arrow
- The letter V or H, if the meter can only be operated in the vertical or horizontal position;
- MAT, (where it differs from T30;
- Pressure loss class (where it differs from ΔP 63);
- Classes on sensitivity to irregularities in velocity field;
- The name or trademark of the manufacturer;
- Year of manufacture, last 2 digits
- Serial number, as near as possible to the indicating device;
- The pattern approval sign according to European regulations;
- Climatic and mechanical environment: severity level;
- EMC Class;
- Output signals for ancillary devices: type/levels if any;
- External power supply requirements: voltage – frequency.

Method of marking:

- Non-erasable;
- visible after assembly.

Water meters

APPLICATION AND USE

The products are intended to be used in closed and filled drinking water installations in order to measure quantities of water flowing through per time and in total with a maximum water temperature of 50°C.

RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Endress + Hauser B.V

and, if necessary,

- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.