



Product certificate K92471/03

Issued 2022-09-01

Replaces K92471/02

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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

Sensus GmbH Ludwigshafen

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 embodies

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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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

Household water meters

iPERL

- **Composite plastic body**
- Magnetic Inductive Flow meter
- Permanent flow rate Q_3 2,5 - 4 -- 6,3 – 10 -- 16 m³/h
- Permanent flow rate Q_3 2,5 – MAT 70 °C
- Measuring range; $R \leq 800$
- MAP 16 bar ;
- MAT 50 °C
- Installation, all positions

420

- **Brass body**
- Turbine meter, submerged measuring unit, straight counter
- Permanent flow rate: Q_3 2,5 -- 4 – 6,3 – 10 - 16 m³/h;
- Measuring range $Q_3/Q_1 = R = 40 / 50 / 63 / 80 / 100 / 125 / 160$;
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer HRI

420 PC

- **Brass body**
- Turbine meter, submerged measuring unit, straight counter
- Permanent flow rate: Q_3 2,5 - 4 – 6,3 – 10 - 16 m³/h;
- Measuring range $Q_3/Q_1 = R = 40 / 50 / 63 / 80 / 100 / 125 / 160$;
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer HRI
- For the 420 PC the register is filled up with a mixture of glycerine and water (Sobrol)

620/630/640

- **Brass body**
- Positive displacement meter, straight counter, dry measuring unit, with bottom sieve;
- permanent flow rate: Q_3 2,5 -- 4 m³/h.;
- with smooth or grooved piston Q_3 2,5 m³/h
- measuring range $Q_3/Q_1 = R = 40 / 80 / 160 / 315 / 400$;
- MAP 16 bar;
- MAT 50 °C.
- Totalizer HRI – Plastic encapsulated
- Optional totalizer HRI – glass/ copper protected
- Optional totalizer --“Opto Encoder” with absolute Encoder measuring unit
- Optional totalizer – Electronic register with integrated radio

620C/630C/640C

- **Composite body**
- Positive displacement meter, straight counter, dry measuring unit, with bottom sieve;
- Permanent flow rate: Q_3 2,5 -- 4 -- 6,3m³/h;
- measuring range $Q_3/Q_1 = R = 40 / 80 / 160 / 315 / 400$;
- with smooth or grooved piston for Q_3 2,5 m³/h
- permanent flow rate: Q_3 6,3m³/h, $Q_3/Q_1 = R = 40 / 80 / 160$
- MAP 16 bar ;
- MAT 50 °C.
- Totalizer HRI – Plastic encapsulated
- Optional totalizer HRI – glass/ copper protected
- Optional totalizer HRI – “Opto Encoder” with absolute Encoder measuring unit
- Optional totalizer – Electronic register with integrated radio

Woltman water meters

MeiStream DN 40

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range horizontal installation
- Q_3 16 m³/h./ R 40
- Q_3 25 m³/h./ R 63/ R 100 and R 125
- vertical installation
- Q_3 16 m³/h./ R 40
- Q_3 25 m³/h./ R 63
- MAP 16 bar;
- MAT 50 °C.
- Totalizer “MeiStream MS D HRI” with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream MS Encoder” with inductive pulse generator for HRI
- Optional totalizer – Electronic register with integrated radio

MeiStream DN 50

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range horizontal installation
- Q_3 16 m³/h./ R 40
- Q_3 25 m³/h./ R 63
- Q_3 40 m³/h./ R 100/ R 125/ R 160
- vertical installation
- Q_3 16 m³/h./ R 40
- Q_3 25 m³/h./ R 63
- Q_3 40 m³/h./ R 100
- MAP 16 bar;
- MAT 50 °C.
- Totalizer “MeiStream MS D HRI” with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream MS Encoder” with inductive pulse generator for HRI

Water meters

MeiStream DN 65

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range

horizontal installation

- Q₃ 25 m³/h./ R 40
- Q₃ 40 m³/h./ R 63
- Q₃ 63 m³/h./ R 100/ R 125/ R 160

vertical installation

- Q₃ 25 m³/h./ R 40
- Q₃ 40 m³/h./ R 63
- Q₃ 63 m³/h./ R 100
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI
- Optional totalizer – Electronic register with integrated radio

MeiStream DN 80

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range

horizontal installation

- Q₃ 40 m³/h./ R 40
- Q₃ 63 m³/h./ R 63
- Q₃ 100 m³/h./ R 100/ R 200/ R 315

vertical installation

- Q₃ 40 m³/h./ R 40
- Q₃ 63 m³/h./ R 63
- Q₃ 100 m³/h./ R 100 and R 125
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI

MeiStream DN 100

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range

horizontal installation

- Q₃ 63 m³/h./ R 40
- Q₃ 100 m³/h./ R 63
- Q₃ 160 m³/h./ R 100/ R 200/ R 315

vertical installation

- Q₃ 63 m³/h./ R 40
- Q₃ 100 m³/h./ R 63
- Q₃ 160 m³/h./ R 100 and R 160
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI
- Optional totalizer – Electronic register with integrated radio

MeiStream DN 125

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range

horizontal installation

- Q₃ 100 m³/h./ R 40
- Q₃ 160 m³/h./ R 63/ R 100/ R 160/ R 250
- Q₃ 100 m³/h./ R 100/ R 200/ R 315

vertical installation

- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI

MeiStream DN 150

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range

horizontal installation

- Q₃ 160 m³/h./ R 40
- Q₃ 250 m³/h./ R 63
- Q₃ 400 m³/h./ R 100/ R 200/ R 400

vertical installation

- MAP 16 bar;
 - MAT 50 °C.
 - Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
 - Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI
 - Optional totalizer – Electronic register with integrated radio
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Water meters

MeiStream Plus DN 40

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range

horizontal installation

- Q₃ 16 m³/h./ R 40 and R 160
- Q₃ 25 m³/h./ R 80/ R 315
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI
- Optional totalizer – Electronic register with integrated radio

MeiStream Plus DN 50

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range

horizontal installation

- Q₃ 16 m³/h./ R 40 and R 160
- Q₃ 25 m³/h./ R 315
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI

MeiStream Plus DN 65

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range
- horizontal installation
- Q₃ 25 m³/h./ R 40 and R 160
- Q₃ 40 m³/h./ R 315/ R 400
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI

MeiStream Plus DN 80

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range
- horizontal installation
- Q₃ 40 m³/h./ R 40 and R 160
- Q₃ 63 m³/h./ R 315/ R 630
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI

MeiStream Plus DN 100

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range
- horizontal installation
- Q₃ 63 m³/h./ R 40 and R 160
- Q₃ 100 m³/h./ R 80/ R 315/ R 400
- MAP 16 bar;
- MAT 50 °C.
- Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI
- Optional totalizer – Electronic register with integrated radio

MeiStream Plus DN 150

- **Cast iron body**
 - turbine meter, dry measuring unit, straight counter
 - permanent flow rate/ measuring range
 - horizontal installation
 - Q₃ 160 m³/h./ R 40 and R 160
 - Q₃ 250 m³/h./ R 80/ R 315/ R 630
 - MAP 16 bar;
 - MAT 50 °C.
 - Totalizer "MeiStream MS D HRI" with inductive pulse generator HRI-Mei and optoelectronic pulse generator OD
 - Optional totalizer "MeiStream MS Encoder" with inductive pulse generator for HRI
 - Optional totalizer – Electronic register with integrated radio
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Water meters

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 dial or specification plate and if present on the lead seal.

Compulsory specifications:

- Unit of measurement (m³);
- Numerical value of Q3;
- Ratio Q3/Q1;
- MAP if where it differs from 1MPa;
- Direction of flow;
- MAT (where it differs from T 30);
- Name or trademark of the manufacturer;
- Year of manufacture

Method of marking:

- Non-erasable;
- visible after assembly.

APPLICATION AND USE

Water meters and measuring units are designed for drinking water installations with a maximum working pressure of 1 MPa and 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:

- Sensus GmbH Ludwigshafen p/a Brinck Meter Control Services.
- and, if necessary,
- Kiwa Nederland B.V.

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