Product certificate
K6151/22

Partner for progress

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Water meters and measuring units

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

Sensus GmbH

complying with the technical specifications as laid down in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate, on delivery, may be relied upon to comply with Kiwa evaluation guideline:

Kiwa-evaluation guideline BRL-K618/07 "Water meters",

which covers the requirements of

EN 14154 – Part 1: "General requirements".

Bouke Meekma
director Kiwa Nederland B.V.

Publication of the 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 inspection of:
- **qualitysystem**
- **product**

Water meters and measuring units

Technic specification
The products mentioned below belong to this certificate

BRL-K618/06: Watermeters

House water meters

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: R40 / R80 / R160;
- 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: R40 / R80 / R160;
- 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
- **Brass body**
- positive displacement meter, straight counter, dry measuring unit, with bottom sieve;
- permanent flow rate: Q_3 2,5 m³/h and 4 m³/h.;
- with smooth or grooved piston Q_3 2,5 m³/h
- measuring range Q_3/Q_1: R40 / R80 / R160 / R315 / R400;
- 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

620C
- **Composite body**
- positive displacement meter, straight counter, dry measuring unit, with bottom sieve;
- permanent flow rate: Q_3 2,5 m³/h, 4 m³/h. 6,3m³/h;
- measuring range Q_3/Q_1: R40 / R80 / R160 / R315 / R400;
- with smooth or grooved piston for Q_3 2,5 m³/h
- permanent flow rate: Q_3 6,3m³/h, measuring range R40/ R80/ R 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

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

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/ R125/ 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 and measuring units

Technic specification

The products mentioned below belong to this certificate

Water meters and measuring units

Technic specification
The products mentioned below belong to this certificate

MeiStream DN 65
- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range:
  horizontal installation
  - Q_3 25 m³/h./ R 40
  - Q_3 40 m³/h./ R 63
  - Q_3 63 m³/h/ R 100/ R125/ R 160

  vertical installation
  - Q_3 25 m³/h./ R 40
  - Q_3 40 m³/h./ R 63
  - Q_3 63 m³/h./ R 100
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream MS D HRI” with inductive pulse generator for
  HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream MS Encoder” with inductive pulse generator for HRI

MeiStream DN 80
- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range
  horizontal installation
  - Q_3 40 m³/h./ R 40
  - Q_3 63 m³/h./ R 63
  - Q_3 100 m³/h/ R 100/ R200/ R 315

  vertical installation
  - Q_3 40 m³/h./ R 40
  - Q_3 63 m³/h./ R 63
  - Q_3 100 m³/h./ R 100 and R 125
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream MS D HRI” with inductive pulse generator for
  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
  - Q_3 63 m³/h./ R 40
  - Q_3 100 m³/h./ R 63
  - Q_3 160 m³/h/ R 100/ R200/ R 315

  vertical installation
  - Q_3 63 m³/h./ R 40
  - Q_3 100 m³/h./ R 63
  - Q_3 160 m³/h./ R 100 and R 160
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream MS D HRI” with inductive pulse generator for
  HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream MS Encoder” with inductive pulse generator for HRI

MeiStream DN 125
- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range
  horizontal installation
  - Q_3 100 m³/h./ R 40
  - Q_3 160 m³/h/ R 63/ R 100/ R160/ R 250
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream MS D HRI” with inductive pulse generator for
  HRI-Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream MS Encoder” with inductive pulse generator for HRI

Water meters and measuring units

Technic specification

The products mentioned below belong to this certificate

MeiStream DN 150

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range
  horizontal installation
  - Q_3 160 m³/h./ R 40
  - Q_3 250m³/h./ R 63
  - Q_3 400m³/h/ R 100/ R200/ R 400
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream MS D HRI” with inductive pulse generator for
  HRI-Mei and optoelectronic pulse generator **OD**
- Optional totalizer “MeiStream MS Encoder” with inductive pulse generator for HRI

MeiStream Plus 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 and R 160
  - Q_3 25 m³/h./ R 315
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream Plus MS D HRI” with inductive pulse generator for HRI- Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream Plus MS Encoder” with inductive pulse generator for HRI

MeiStream Plus 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 and R 160
  - Q_3 25 m³/h./ R 315
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream Plus MS D HRI” with inductive pulse generator for HRI- Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream Plus 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:
  - Q_3 25 m³/h./ R 40 and R 160
  - Q_3 40 m³/h./ R 315 and R 400
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream Plus MS D HRI” with inductive pulse generator for HRI- Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream Plus 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:
  - Q_3 40 m³/h./ R 40 and R 160
  - Q_3 63 m³/h./ R 315 and R 400
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream Plus MS D HRI” with inductive pulse generator for HRI- Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream Plus MS Encoder” with inductive pulse generator for HRI

Water meters and measuring units

Technic specification

The products mentioned below belong to this certificate

MeiStream Plus DN 100

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
  permanent flow rate/ measuring range:
  horizontal installation
  - Q_3 63 m³/h./ R 40 and R 160
  - Q_3 100 m³/h./ R 315 and R 400
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream Plus MS D HRI” with inductive pulse generator for HRI- Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream Plus MS Encoder” with inductive pulse generator for HRI

MeiStream Plus DN 150

- **Cast iron body**
- turbine meter, dry measuring unit, straight counter
- permanent flow rate/ measuring range:
  horizontal installation
  - Q_3 160 m³/h./ R 40 and R 160
  - Q_3 250 m³/h./ R 315 and R 630
- MAP 16 bar ;
- MAT 50 °C;
- Totalizer “MeiStream Plus MS D HRI” with inductive pulse generator for HRI- Mei and optoelectronic pulse generator OD
- Optional totalizer “MeiStream Plus MS Encoder” with inductive pulse generator for HRI

BRL-K618/05: Cold watermeters

In deviation of the stated under the aspect “Application and use” and “compulsory specifications” the following applies for under mentioned products:
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 30 °C.

- name or mark of manufacturer on the dial(or on the specification plate) and on the lead seal;
- indication of class on the dial (or on the specification plate);
- nominal measuring capacity "Qn.." or "Qn..m^3/h" on the dial (or on the specification plate);
- manufacture number on the glass holder (or on the specification plate);
- arrow showing direction of flow on the body;
- "V" of "H", when the meter is to be applied only respectively in horizontal or vertical position, on the body.

FXN

- turbine meter, submerged measuring unit, straight counter, class B
- nominal flow rates of: Q_n 1,5/ 2,5/ 3,5/ 6 and 10 m³/h

XNP

- turbine meter, submerged measuring unit, straight counter class C, with check valve Ocean DN 20
- nominal flow rate of: Q_n 1,5 m^3/h.

Water meters and measuring units

Technic specification

The products mentioned below belong to this certificate

620 Composite and brass body

- positive displacement meter, straight counter, dry measuring unit, class C, with bottom sieve
- nominal flow rate Q_n 1,5 m³/h. and 2,5 m³/h

Woltman water meters (horizontal and vertical installation)

WP-Dynamic-QH

- turbine meter, dry measuring unit, straight counter, class B
- nominal flow rates: Q_n 40/ 60 and 150 m^3/h.

WB-Dynamic-PH,

- Turbine meter dry measuring unit, straight counter class B
- nominal flow rates: Q_n 40/ 60 and 150 m³/h.

Woltman water meters (horizontal installation)

WS-Dynamic-PH

- turbine meter, dry measuring unit, straight counter, class B
- nominal flow rates: Q_n 15/ 25/ 40/ 60 and 150 m³/h.

Combination water meters

WPV-FU

- turbine meter, dry measuring unit, straight counter, class B
- nominal flow rates: Q_n15/ 40/ 60 and 150 m³/h

Auxiliary meters

The above mentioned water meter combinations shall be provided with an auxiliary meter from form the section "Water meters for house connections".

Water meters for standpipes on hydrants

- STM-N(XN)
- turbine meter, submerged measuring unit, straight counter, class B, nominal flow rate: Q_n 10 m³/h.

STW-TRM

- turbine meter, dry measuring unit, straight counter, ~~class~~ class B,
- nominal flow rate: Q_n 15 m^3/h.

Water meters and measuring units

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.

Toxicological requirements

The toxicological requirements for products coming into contact with drinking water are laid down in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" (Regulation materials and chemicals for drinking water and warm tap water supply; published in the Government Gazette).
This product is not completely evaluated according to above mentioned regulation. Parts of the product that meet the requirements of above mentioned regulation are recorded in the Appendix to the certificate.

Marking

The Kiwa®-mark products are marked with the word mark “KIWA”.
Place of the mark: On the dial (or on the specification plate) and on the lead seal

Compulsory specifications:
- Unit of measurement (m^3);
- Numerical value of Q_3;
- Ratio Q_3/Q_1;
- 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.

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

and, if necessary,
- Kiwa Nederland B.V.

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