



APPLICATIONS

The 620 is a high precision meter.

Due to its unique piston measuring chamber even drops of water are counted.

A clear view is either provided through a register with an integrated wiper or a sealed metal/glass register that does not fog. For a faster and more comfortable readout the 620 is prepared for AMR.

Due to our broad product range of system solutions you can adapt the 620 to all your AMR needs.

Not least by its tamper proof design and its long life span you will be glad you used the 620.

CERTIFICATE OF COMPLIANCE FOR POTABLE DRINKING WATER

AS/NZS 4020 : 2018

- Double Check Valve compliant with AS2845.1-2010
- DZR brass Body compliant withAS2345-2006
- KTW/DVGW (Germany)
- ACS (France)
- WRAS (UK)
- Hydrocheck (Belgium)
- KIWA ATA (Netherlands)

620 Australian Version

Volumetric Meter Dry Dial

Main Features

DN 20, PN 16 Small pressure drop High resistance to impurities Quiet operation Suitable for cold water from 0.1 °C up to 50 °C

Available options

HRI electronic sensor (Pulse Unit, Data Unit)

Connectors

Non-return valve

Plastic and metal/glass register



• NMI R49 Cert No. 14/3/38

- OIML Certificate of conformity (N° R49-1/2003-DE1-07.02)
- In compliance with
 - OIML R49:2013
 - ISO 4064:2014



620 **Volumetric Meter Dry Dial**

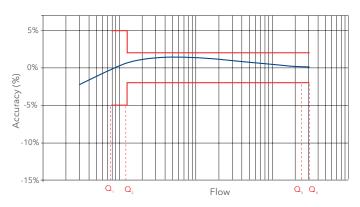
Accuracy and reliability

Thanks to the advanced design of its measuring chamber the meter has an extreme low starting flow.

Foreign matter present in the water is filtered out by either the tubular strainer on the inlet or the seat strainer. Particles can go through the meter without damage; the patented elastic pivot enables the particles to pass between the piston and the measuring chamber. All the gears are situated in the dry register, which eliminates any risk of blockage due to suspended particles in the water.

The 620 water meter keeps its metrological accuracy for many years of operation, even in very difficult working conditions.

Typical Accuracy Curve



Typical Head Loss Curve 1 Head loss (bar) 04.20 Insus 20 100 3 5 7 10 Flow rate (m³/h) SSECCO

Cross Section

620 Volumetric Meter Dry Dial

Legibility

The display on 8 drums (5 for m³, 3 for litres) and 1 pointer ensures perfect readability. The lowest resolution is 0.05 litres. The dial has a central disc whose rotation indicates the passage of water. This indicator can be used to reveal a downstream leak.

The plastic dial is equipped with a wiper for optimum legibility under all conditions. The 620 water meter can operate in any position and its dry dial register can be rotated up to 350°. The dial can therefore be easily read under all conditions of use. As an option, the meter can be supplied with a metal/glass register, making it perfectly water-tight (IP 68).

PERFORMANCE DATA

Metrological characteristics in accordance with Measuring Instruments Directive

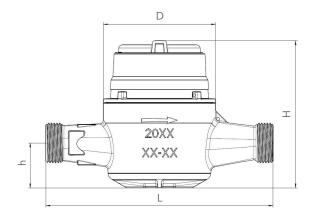
Nominal size	DN	mm	20
Permanent flow rate	Q ₃	m³/h	4
Ratio "R"	QQ	R	400
Maximum flowrate (1)	Q ₄	m³/h	5
Minimum flowrate ⁽¹⁾ (tolerance ±5%)	Q	l/h	10.00
Transitional flowrate ⁽¹⁾ (tolerance ±2%)	Q ₂	l/h	16.00

(1) Values for R=400 for DN 15-20 and R=315 for DN 25-32

DIMENSIONS AND WEIGHTS

Nominal Size	DN	mm	20		
Length	L	mm	154		
Width	D	mm	93.5		
Total height	Н	mm	123		
Height to pipe axis	h	mm	37.5		
Thread Type		inch	Nut and Tail (AS3565.1)	Ball joint (AS3565.1)	
Thread Diameter	Ø	mm	32.50	36.60	
Threads Per			14	14	
Weight		kg	1.6	1.6	

Dimensional Diagram



METROLOGICAL DATA

Nominal size		4 m³/h	
Connection size		DN20	
Flow range	Q,	0.010 m³/h	
	Q ₂	0.016 m³/h	
	Q ₃	4 m³/h	
	Q.4	5 m³/h	
	Q ₂ / Q ₁	1.6	
	Q ₃ / Q ₁	400*	
Accurarcy class		$\pm 2 \% (Q_2 \le Q \le Q_4)$ for water temperatures $\le 30 \text{ °C}$	
		$\pm 3 \% (Q_2 \le Q \le Q_4)$ for water temperatures > 30 °C	
		$\pm 5\% (Q_1 \le Q \le Q_2)$	
Temperature range		0.1 °C 50 °C	
Pressure range (MAP)		0.3 bar (0.03 MPa) - 16 bar (1.6 MPa)	
Pressure loss class ∆P		0.63 bar (0.063 MPa)	
Environmental class		B/O	
Electromagnetic Conditions		E2	

* further available ratios Q_3 / Q_1 : 315, 250, 200

For the installation guidelines please refer to the manual "Volumetric Meter Manual" on our website.

620 Volumetric Meter Dry Dial

HRI-Options

The dial of the meter is equipped as standard with a pointer, which is prepared to be scanned with compatible modules such as HRI or CompactRF. This inductive scanning is extremely robust and also takes the flow direction into account. This ensures that the counter reading of the mechanical dial is accurately reproduced. The HRI provides a reliable pulse or data interface for both mobile and remote reading. The HRI or Sensus CompactRF can be field mounted to already installed Sensus water meters, or ordered factory mounted to the meter.

For more information, please refer to the HRI, Sensus CompactRF and Sensus PulseRF module data sheets.

The HRI is available in two variants:

1. HRI-A Pulse Unit

The resolution of the input pulses is 1 liter per pulse. Different versions of the HRI-A with fixed output pulse values are available.

2. HRI-B Data Unit

The HRI data unit integrates a data interface. The meter reading as well as the serial number can be read out via an M-Bus network according to EN 13757. Alternatively, the pulse output can be used. This can be configured via the data interface.

3. Sensus CompactRF and Sensus PulseRF-A3 radio modules

a. Sensus CompactRF

The module can be placed on the meter and thus forms a meter with radio module.

b. Sensus PulseRF-A3

The pulse pickup is placed on the meter. The actual radio module is connected with a cable and allows remote operation, e.g. to enable a secure radio connection in difficult radio conditions.

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HRI



Sensus CompactRF



Sensus PulseRF-A3



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