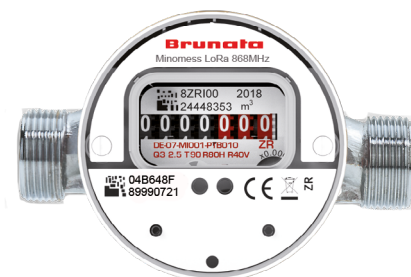


- Connect your everyday life with the network of the future - LoRaWAN
- Ensure that residents only pay for their own actual water consumption
- Brunata takes care of all the work while you save time
- Monitor the property's water consumption online
- Get your property read for the legal requirements and technical standards of the future



Acquire a water meter that can ensure that residents only pay for their own actual water consumption with a single-jet water meter

Features

Minomess Single Jet is a single-jet water meter for measuring the consumption of cold and hot water for individual consumption billing. The water meter has a built-in LoRaWAN radio module and can record large amounts of data. With great accuracy, the water meter can measure very low flows that ensures that the entire consumption is measured. This means that you can guarantee your residents a fair and correct allocation of their consumption, while contributing to reduce the water wastage at the property.

Reading options

Minomess Single Jet's built-in radio module enables the meter to be read remotely via Brunata Net, which is a radio network that can be set up in all types of properties. With Brunata Net you are able to access your meters and monitor measurement data via WebMon, which is part of Brunata's Online Services. WebMon allows both residents and the administrator to monitor the development of consumption and consumption patterns.

Facts

- MID approved
- Electroic water meter that transmits data every 24. hours
- Available as a hot water meter and a cold water meter
- The meter can be installed horizontally and vertically, and on both riser pipes and downpipes
- The meter can be connected to Brunata Net and be monitored via Brunata Online

Functions

- Single-jet impeller meter
- Low start flow and flow pressure loss
- Compact design
- Rotatable calculator
- Shielded against magnetic fields in accordance with VDDW standard and EN 14154-3

LoRaWAN

Technology has left an indelible mark on society and has played an active role in optimising digitisation. One of the most recent initiatives is Internet of Things, IoT, which is a network of electronic devices that can communicate with one another by means of sensors. One of the things technology has made possible is to connect several devices to the internet so that you can keep yourself updated at any time with the status of your of your electricity meter or smoke detector, for example. These options can be effectuated through LoRaWAN, Long-Range Wide-Area Network, which is an open, internationally recognised standard for communication between different devices such as IoT sensors and IoT gateways.

General information

Minomess Single Jet	
Temperature range (cold water)	1 ... 30 °C
Temperature range (hot water)	30 ... 90 °C
Nominal pressure	10 bar
Display range	0,1 l ... 9.999 m ³
Ambient temperature when in use	5 ... 55 °C
Ambient temperature when in storage	1 ... 55 °C
Mechanical environmental requirements	M1
Ingress protection class	IP 68
Battery life	Up to 10 years

Nominal flow rate	Q ₃	m ³ /h	2,5	2,5	4
Length without couplings	L	mm	80	110	130
Minomess Single Jet (with radio module)			x	x	x

Approval

Minomess Single Jet	
Approval	DE-07-MI001-PTB010, OIML R49, EN 14154,
Dynamic range (Q ₃ /Q ₁)	R 80 H / 40 V

Communication

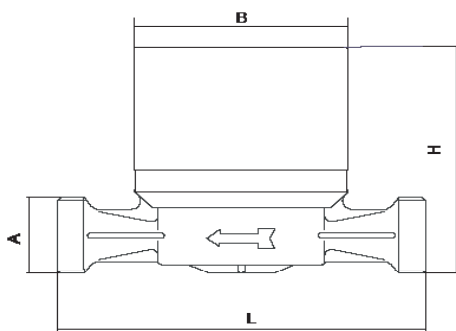
LoRaWAN	
Frequency band	868 MHz
Radiotelegram type	LoRaWAN
Transmission frequency	Every 24. hours

Technical data

Nominal flow rate	Q_3	m^3/h	2,5	2,5	4
Length without couplings	L	mm	80	110	130
Internal diameter	DN	mm	15	15	20
Overload flow rate	Q_4	m^3/h	3,125*	3,125*	5*
Transitional flow rate, horizontal	Q_2	l/h	50*	50*	80*
Min. flow rate, horizontal	Q_1	l/h	31*	31*	50*
Start flow rate, horizontal		l/h	8	8	12
Pressure loss at Q_3		bar	0,63	0,63	0,63

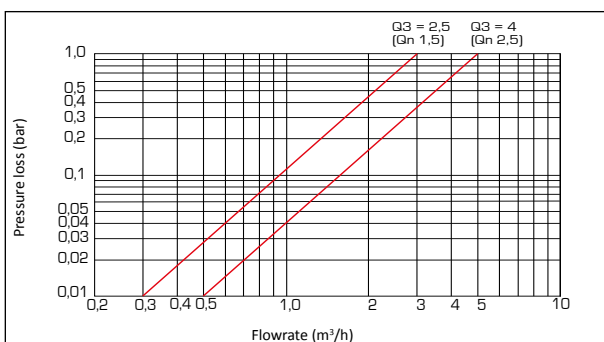
* at R 80

Dimensions

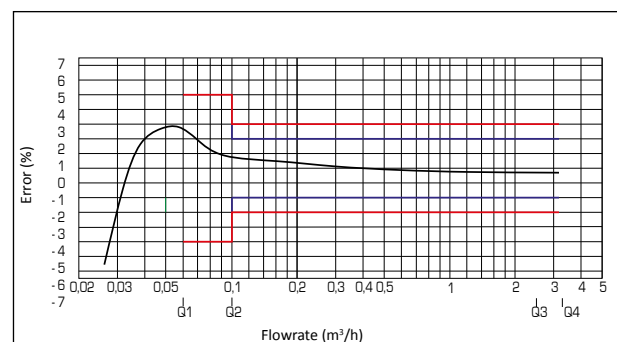


Nominal flow rate	Q_3	m^3/h	2,5	2,5	4
Length without couplings	L	mm	80	110	130
Length with couplings	L2	mm	160	190	228
Meter thread		Inch	G $\frac{3}{4}$ B	G $\frac{3}{4}$ B	G1B
Coupling thread		Inch	R $\frac{1}{2}$	R $\frac{1}{2}$	R $\frac{3}{4}$
Height	H	mm	14	14	17
Height (with radio module)	H1	mm	69	69	69
Diameter	$\varnothing B$	mm	64	64	64
Weight without couplings		kg	0,4	0,44	0,54
Weight with couplings		kg	0,58	0,64	0,72

Pressure loss graph / typical error graph



Pressure loss graph



Typical error graph