

Octave™

ULTRASONIC TYPE

A high-end ultrasonic meter, with a revolutionary technology and no moving parts, designed for maximum accuracy and minimal maintenance.



Precise



Maximum
reliability



Superior
design



/ Benefits & Features

- **Precise** Extremely high accuracy & negligible head loss
- **Maximum reliability** Sturdy and durable
- **Superior design** Programmable on clear display
- **High & low flows** Suitable to changing conditions

/ Specifications & Recommendations

- **Maximum Working Pressure** – 16bar
- **Liquid Temperature** – 0.1 up to 50°C
- **Power Source** – 2 D size Li-battery: up to 15 years life time
- **Volume Display Options** – 1. Net (Forward less reverse) 2. Forward only 3. Reverse only 4. Forward & reverse alternating
- **Configuration Compact** - The display is built into the unit
- **Environmental Protection** – IP 68, - Ambient operation temp. -25°C up to +55°C
- **Connections** – 1½ - 2" threaded: with couplings to NPT/ BSP
- **2"-12" Flanged** – flanges according to ISO, BS 10 and ANSI 150

→ Installation Requirements

- Available upon request

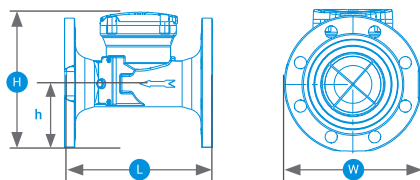
→ Performance Data

Meter Size	Q1 Minimal Flowrate (m³/h)	Q2 Transitional Flowrate (m³/h)	Q3 Permanent Flow Rate (m³/h)	Q4 Overload Flow Rate (m³/h)	Q3/Q1 (R Value)	Starting Flow (m³/h)
DN 40-1½"	0.160	0.256	40	50	250	0.025
DN 50-2"	0.080	0.125	40	50	500	0.025
DN 65-2½"	0.080	0.125	40	50	500	0.025
DN 80-3"	0.125	0.200	63	80	500	0.025
DN 100-4"	0.200	0.320	100	125	500	0.025
DN 150-6"	0.500	0.800	250	313	500	0.2
DN 200-8"	0.800	1.280	400	500	500	0.2
DN 250-10"	2	3.2	1000	1250	500	0.5
DN 300-12"	2	3.2	1000	1250	500	0.5

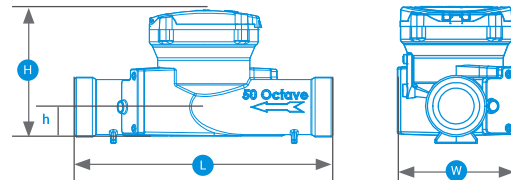
→ Technical Dimensions

Diameter	mm	40 Thrd.	50 Thrd.	50	65	80	100	150	200	250	300
	inch	1½ Thrd.	2 Thrd.	2	2½	3	4	6	8	10	12
L - Length without couplings (mm)		300	300	200	200	225	250	300	350	449	499
w- width (mm)		113	113	165	185	200	220	285	340	406	489
H - height (mm)		155	155	194	210	210	223	282	332	383	456
h - Height (mm)		35	35	40	90	90	103	140	165	203	245
Weight (kg) - Cast iron body			8	9	11.5	13	15	32	45	68	96
Weight (kg) - Polymer body		1.4	1.45								
Weight (kg) - Stainless steel body		4	4	6		7	9.5	16			

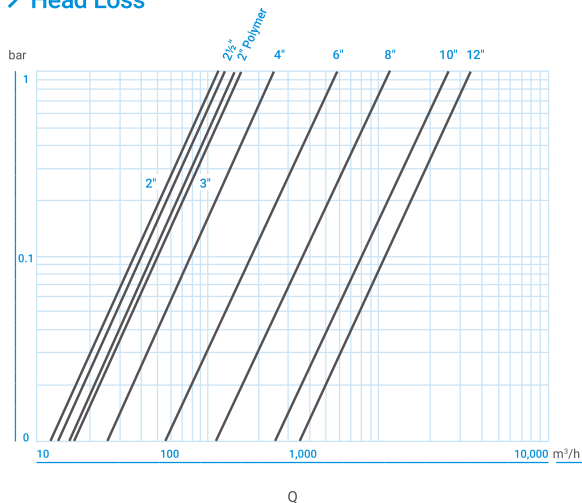
Flanged



Threaded



→ Head Loss



→ Catalog Numbers

Material	Diameter	Connection Type	Catalog Number
Cast iron	2"	ISO	70240-014020
		BSTD	70240-014000
		ANSI	70240-013975
	3"	ISO	70240-014120
		BSTD	70240-014100
		ANSI	70240-014155
	4"	ISO	70240-014250
		BSTD	70240-014200
		ANSI	70240-021452
	6"	ISO	70240-014300
		BSTD	70240-014350
		ANSI	70240-021453
	8"	ISO	70240-014400
		BSTD	70240-014450
		ANSI	70240-021454
	10"	ISO	70240-014490
		BSTD	70240-014500
		ANSI	70240-021455
	12"	ISO	70240-014550
		BSTD	70240-014560
		ANSI	70261-000485

Material	Diameter	Connection Type	Catalog Number
Plastic	1½"	BSP	70240-013910
	2"		70240-013986
Stainless steel	2"	BSP	70240-000205
		ISO	70240-000206
		BSTD	70240-000200
		ANSI	70240-021490
	3"	ISO	70240-000207
		BSTD	70240-000201
		ANSI	70240-021491
	4"	ISO	70240-000208
		BSTD	70240-000202
		ANSI	70240-021492
	6"	ISO	70240-000209
		BSTD	70240-000203
		ANSI	70240-021493

it is possible to order the Octave water meter with a built-in module

→ Module Type

Module Type	Catalog Number
SSR Solid state relay dual pulse	70220-000029
Open drain dual pulse	70220-000028
4 - 20 mA	70220-000032
4 - 20 mA + SSR pulse	70220-000031
Modbus Protocol Output	70220-000034

→ Outputs

SSR Solid state relay dual pulse

The SSR is a dual electronic relay output that provides pulse per quantity with these options:

1. Two scaled forward and/ or reverse pulses
2. One scaled forward and one alarm frequency output

Open drain dual pulse

The Digital (pulse) output is an open drain transistor output that provides pulse per quantity with these options:

1. Two scaled forward and/or reverse mode pulses
2. One scaled forward pulse and one alarm frequency output
3. The measuring units of the output can be programmed differently from the displayed units. The pulse resolution will be shown on the display for each pulse separately units

4-20mA Analog Output

- The analog output shows the currently measured flow rate.
- This output is a 4 - 20 mA current loop (the end user must supply power to the unit).
- The analog output is programmable for forward and reverse flow (see operation manual for more details).
- The 20mA point is programmable per customer request (to any flow lower than the max flow of the meter).

Modbus Protocol Output

The improved full Modbus/ MBus protocols include an optional pulse output and have the following available functions:

1. Alarms (battery, empty pipe)
2. Current flow
3. AMR serial number
4. Flow direction
5. Real Time Clock (RTC)
6. Forward and reverse volumes
7. Volume units
8. Flow and volume resolution
9. Flow rate units