

Octave water meter (polymer)

Arad



In addition to the cast iron variant there is also an Octave with polymer body made from glassfiber-reinforced polymer. This water meter has the same revolutionary, accurate and reliable ultrasonic measuring technology. Just as with the cast iron Octave, the polymer version has excellent hydraulic characteristics and advanced possibilities. The same adapters can be used with this polymer Octave as with the cast iron version.

APPLICATION

Flow measurement such as in fertilizer units and drain water decontamination

CHARACTERISTICS

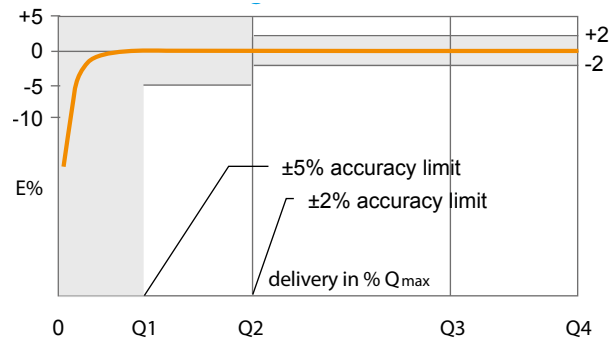
- ✓ Lightweight water meter (up to 5 times lighter than cast iron), ideal for export
- ✓ Reliable water meter with no moving parts, hence very low clogging vulnerability
- ✓ Factory default pulse settings
- ✓ Battery with 10 year service life
- ✓ Solid mechanical design - (IP 68)
- ✓ Very precise measurement with low flow rates
- ✓ Possibility of bidirectional measurement
- ✓ Clear read-out including flow direction, flow rate, volume and leak detection
- ✓ Large and programmable LCD
- ✓ Programmable outputs

TECHNICAL DATA

Diameter	: DN40
Connection	: 1½" BSP male thread
Measuring accuracy	: +/- 2% between Q2 and Q4 : +/- 5% between Q1 and Q2
Minimum pressure	: 0,7 bar
Maximum pressure	: 16 bar
Maximum capacity	: 40 m³/h
Temperature range	: 0.1 °C to 50 °C
Head loss	: see chart
Material	: glassfiber-reinforced polymer
Protection class	: IP68
Battery	: Lithium battery* (irreplaceable)
Certification	: MID, CE, ISO 4064 (2005), AWWA C 750, WRAS, NSF
Display	: Multi-line 12-digit LCD
Output (default)	: Pulse #1 1P=10L forward : Pulse #2 1P=1L forward
Volume measurement	: 1. Net (forward flow direction counterflow direction) : 2. Forward flow direction : 3. Flow direction & reverse flow direction
Adapter (optional)	: double pulse - transistor : double pulse - SSR : 4-20 mA (analogue) : SSR + 4-20 mA (analogue) : ModBUS

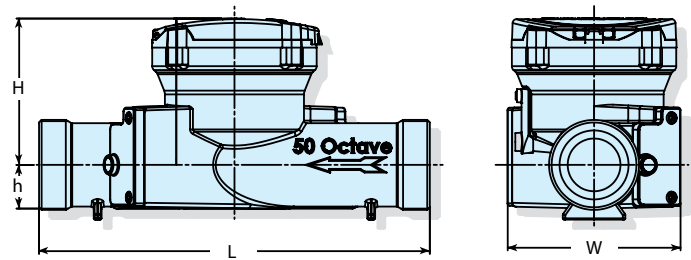
Performance and accuracy (according to MID2004/22/EC - ISO 4064: 2005)

Nominal passage	mm inch	DN40 1½"
Minimum capacity Q1	m³/h	0,080
Transfer capacity Q2	m³/h	0,125
Nominal capacity Q3	m³/h	40
Maximum capacity Q4	m³/h	50
Minimal starting flow	m³/h	0,025

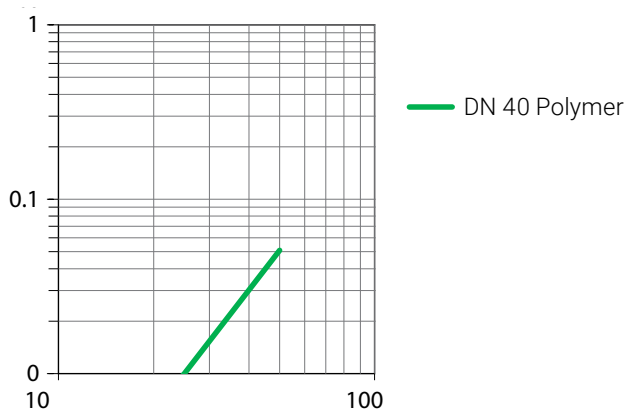


Technical drawing and specifications

Nominal passage	mm inch	DN40 1½"
L - Length	mm	300
B - Width	mm	113
H - Height	mm	155
h - Height	mm	35
Absolute passage	mm	38
Weight	kg	1,4



Head loss



INSTALLATION & MAINTENANCE

- ✓ The meter should be completely filled with water at all times. Allow 2x diameter interspace as standard (e.g. at elbows, T-pieces, valves) upstream and downstream of the Octave water meter. In case of a pump connection, 10x diameter interspace is recommended upstream of the water meter.
- ✓ Consult the installation manual of the Octave at all times.
- ✓ Netafim can program the water meter with the required settings, on request.
- ✓ The protective earthing and equipotential bonding should be such that electromagnetic from devices other than the Octave cannot influence the signal. The 1½" Octave has a 2" thread, for which we recommend the following connection couplings: up to 18.0 m³/h = 2/3 coupling 50 mm (77300-103870) and up to 28.5 m³/h = 2/3 coupling 63 mm (77300-103874)

Battery

Octave battery service life is estimated on 10+ years. Unfortunately the battery in Octave cannot be replaced. The IP68 protection vacuum will be compromised. MSDS available on request.

Density and viscosity

Octave is designed for the flow measurement of fluids with more or less the same density and viscosity as normal water at 20°C. Any other deviating fluids cannot be measured with Octave.