

Octave Ultrasonic **Water Meter**

Scope of Use / Specification Sheet

The Octave Ultrasonic Meters are a revolutionary, precise and ultra-reliable ultrasonic bulk water meter with no moving parts. With superior hydraulics and batteries that last more than 15 years, the Octave is today's best choice for bulk meters.

The Octave Range is NMI approved.

Product List	
Order Code	Description
WM5000CTSST*	DN50 - Threaded - ISO Length Stainless Steel
WM5000CTSS+	DN50 - Flanged - ISO Length Stainless Steel
WM8000CTSS+	DN80 - Flanged - ISO Length Stainless Steel
WM1000OCTSS+	DN100 - Flanged - ISO Length Stainless Steel
WM1500OCTSS+	DN150 - Flanged - ISO Length Stainless Steel
WM2000OCTSSHF+	DN200 - Flanged - ISO Length Stainless Steel

^{*} Threaded versions are provided with couplings. WaterMark Approved

All meters are NMI approved. Maximum temperature 50 °C. POR = Price On Request.

Digital Dual pulse output included with meter.



WM500OCTSST

Features and Benefits

- Dual beam ultrasonic technology for precise and ultra reliable metering
- No moving parts
- Excellent long-term stability and reliability
- Battery powered up to 15 years life expectancy
- Rugged mechanical design submersible (IP68)
- Extremely sensitive and accurate in low flows
- Bi-directional outputs (digital and analog)
- Flexible data formats including flow directions, flow rates and volumes
- AMR and cellular networks ready with alerts and statistics features
- Multiline LCD
- Programmable Display (units and outputs resolution)
- EMI / RFI Protection
- NMI approved to zero upstream and zero downstream straight length of pipe

Materials	
Body	Polymer / Stainless Steel
External Nuts and Bolts	Stainless Steel



⁺ Approved utility use only. No WaterMark



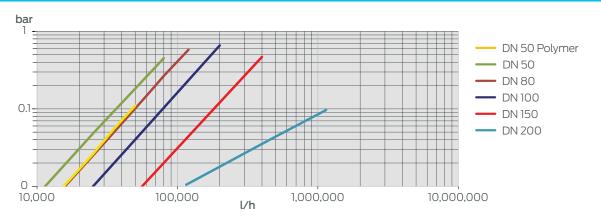
Octave Ultrasonic

Water Meter

Performance Specifications				
Maximum Working Pressure	16 bar			
Liquid Temperature	0.1°C up to 50°C			
Precision Class	NMI R49, Accuracy class 2			
Configuration	Compact – the display is built into the unit			
Power Source	2 × D size Li-battery: 15 year life time			
Environmental Protection	IP 68, Ambient operation temp25°C up to +55°C			
Volume Display Options	1. Net (Forward less reverse)	3. Reverse only		
	2. Forward only	4. Forward and reverse alternating		
Outputs	Digital Dual Pulse Output (included), 4- Fully configurable to suit site requireme			
Connections	Flanges according to BS 10 Table D			
Severity Levels	Mechanical class M1 and Electromagnetic Environment class E1			
Pressure Loss Class	ΔP 0.16 bar			

Flow Rate							
m³/h —	Meter Size Meter Size						
	DN 50	DN 80	DN 100	DN 150	DN 200		
Q1 Minimum flow rate	0.080	0.125	0.200	0.500	4		
Q2 Transitional flow rate	0.125	0.200	0.320	0.800	6.4		
Q3 Permanent flow rate	40	63	100	250	1000		
Q4 Overload flow rate	50	80	125	313	1250		
Q3/Q1 (R)	500	500	500	500	250		
Starting Flow	0.025	0.025	0.025	0.2	1.0		

Head Loss Curve





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Reliance Worldwide Corporation (Aust.) Pty. Ltd. reserves the right to change any product specification or information contained in this publication at any time and without notice. All diagrams are illustrative only. Please consult OEM instructions and AS/NZS 3500 for all installations. ABN 71 004 784 301 | EPK0268 REV-



Octave Ultrasonic

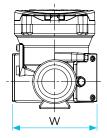
Water Meter

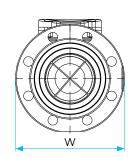
Dimensions							
Model	mm	50 Threaded	50	80	100	150	200
	inch	2" Threaded	2"	3"	4"	6"	8"
(L) Length without c	ouplings	300	200	225	250	300	350
(W) Width		113	165	200	220	285	340
(H) Height		155	194	210	223	282	332
(h) Height		35	40	90	103	140	165
Weight (kg) – Polym	ner body	1.45	_	_	_	-	-
Weight (kg) – SS bo	dy	4	6	7	9.5	16	32

Note: All measurements in mm unless otherwise stated.

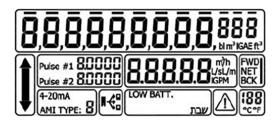
Threaded

50 Octave





Digital Display



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Flow Direction

Flow Rate Units

Accumulator Mode

Communication Mode

BATT. Low Battery Alert

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Flanged

System Error

4-20mA AMI TYPE:

Output Mode

bl m³ IGAE ft³

Volume Units

Pulse #1 80000 Pulse #2 80000

Pulse Resolution





Octave Ultrasonic

Water Meter

Installation

For proper flow measurements, the Octave's measuring tube must be completely full of water at all times. Non-wetted sensors show loss of signal. Although this will not cause damage to the meter, it will not measure flow, and will display zero.

For further information view the instruction manual.

Installation is subject to the requirements of the applicable regulatory authority, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500.1.

Warranty

Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture within the warranty period. You may contact RWC at the phone number, or e-mail shown below for further information or to make a claim.

Visit www.rmc.com.au/warranty to view the warranty statement in full and for further important information.

Standards and Approvals

Threaded Stainless Steel and Polymer only: Flanged Stainless Steel and Cast Iron only: All Types



 Approved utility use only. No Watermark NMI R49

