



Octave brings the latest in ultrasonic metering technology to Commercial/Industrial (C&I) water meters and puts precise measurement where the real flows exist. An excellent alternative to mechanical compound, single-jet, floating ball, fire-service type and turbine meters, Octave excels at maintaining sustained accuracy for the life of the meter while providing smart AMR capabilities.

Technical Specifications:

Working Pressure - 175 PSI

Liquid Temperature - 32.1° - 122 °F

Metrological Characteristics - Meets ANSI/AWWA Standard C715-18, C750-10, ISO 4064 rev. 2005

Configuration - Compact-Display built into unit

Power Source - 2 x D Size Lithium Thionyl Chloride batteries - 10 year warranted life time

Environmental Protection - NEMA 6P (IP68), Ambient operation temp. - 13 °F / +131 °F for the display

Display Units - Multi line 12 digit LCD (Programmable USG, Cubic Feet, Cubic Meters, Acre Feet for volume and GPM, Lt/s, or M³/h for rate of flow)

Output - Programmable digital pulse, Modbus, encoder OR externally powered loop 4-20 mA. Optional dual output available in encoder + pulse.

Features & Benefits:

- Industry leading low flow sensitivity reduces Non-Revenue Water
- Grade 316 Stainless Steel (2"-8") or Epoxy Coated Ductile Iron (8"-12") body design provides full compliance with ANSI/NSF 372 (AB1953 or NSF61G)
- Easy to install Floating Flanges on 2"-6" and Integrated Flanges on 8"-12".
- No moving parts. Minimal flow intrusion. Enduring accuracy.
- No required strainer
- Industry standard communication protocol for integration with most third-party AMR/AMI systems
- Active leak, theft, backflow, meter damage/tamper, rate of flow, and battery life indication
- Detailed LCD display features immediate reporting and visual indicators for 8 critical conditions
- Ruggedized NEMA 6P/IP-68 construction; fully submersible design
- Designed to meet standards for both North American and International C&I water meters
- Optional flow measurements; Forward Only, Net Volume or Alternating Display (Forward and Reverse Consumption displayed separately)



Performance Data

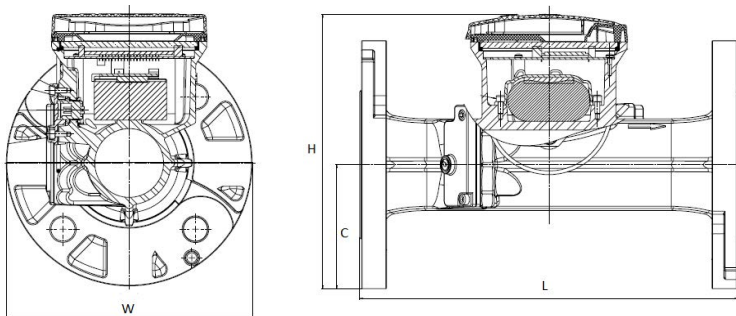
Octave Nominal Size inch (mm)	Extended Low Flow 95% - 105% Accuracy GPM (Lt/s)	Normal Flow Range 98.5% - 101.5% Accuracy GPM (Lt/s)	‡ Continuous Safe Max Flow GPM (Lt/s)	Linearity Range +/- 0.5% Maximum Deviation GPM (Lt/s)
2" (50mm)	1/4 (.016)	1/2 - 250 (.032 - 15.77)	250 (15.77)	4 - 200 (.25 - 12.62)
3" (80 mm)	1/2 (.032)	1 - 500 (.06 - 31.54)	500 (31.54)	5 - 350 (.32 - 22.08)
4" (100 mm)	3/4 (.047)	1-1/2 - 1,000 (.09 - 63.09)	1000 (63.09)	15 - 700 (.94 - 44.16)
6" (150 mm)	2 (.13)	3 - 1,600 (.19 - 100.94)	1,600 (100.94)	20 - 1,150 (1.26 - 72.55)
8" (200 mm)	4 (.25)	5 - 2,800 (.32 - 176.65)	2,800 (176.65)	50 - 2,000 (3.15 - 126.18)
10" (250 mm)	8 (.50)	14 - 5,500 (.88 - 346.99)	5,500 (346.99)	400 - 4,000 (25.24 - 252.36)
12" (300 mm)	8 (.50)	14 - 5,500 (.88 - 346.99)	5,500 (346.99)	400 - 4,000 (25.24 - 252.36)

‡ Continuous Safe Max Flow ranges listed for the Octave are for accurate flow measurement only and do not limit the Octave from meeting the Short-term Deluge Flow for fire services.

Dimensions

Model	Octave									
	Floating Flanges							Solid Flange		
Nominal Size	2" x 10"	2"x13"	2"x15.25"	2"x17"	3"	4"	6"	8"	10"	12"
	(50 mm)	(50 mm)	(50 mm)	(50 mm)	(80 mm)	(100 mm)	(150 mm)	(200 mm)	(250 mm)	(300 mm)
L - Length	10"	13"	15.25"	17"	12"	14"	18"	20"	17 3/4"	19 3/4"
	(250 mm)	(330 mm)	(390 mm)	(432 mm)	(305 mm)	(356 mm)	(457 mm)	(508 mm)	(451 mm)	(502 mm)
W - Width	5 3/4"	5 3/4"	5 3/4"	5 3/4"	7 1/2"	9"	11"	13 1/2"	16"	19 3/4"
	(146 mm)	(146 mm)	(146 mm)	(146 mm)	(190 mm)	(229 mm)	(280 mm)	(343 mm)	(406 mm)	(502 mm)
H - Height	6 3/4"	6 3/4"	6 3/4"	6 3/4"	8 1/2"	9 7/8"	10 7/8"	12 7/8"	16 1/2"	19 3/4"
	(172 mm)	(172 mm)	(172 mm)	(172 mm)	(216 mm)	(250 mm)	(276 mm)	(327 mm)	(419 mm)	(502 mm)
C - Center Pipe Height	2 1/8"	2 1/8"	2 1/8"	2 1/8"	3 1/2"	4 1/2"	5 1/8"	6 3/8"	8"	9 7/8"
	(54 mm)	(54 mm)	(54 mm)	(54 mm)	(90 mm)	(115 mm)	(130 mm)	(162 mm)	(203 mm)	(251 mm)
Weight - Ductile Iron	-	-	-	-	-	-	-	108 lbs. (49 kg)	150 lbs. (68 kg)	210 lbs. (96 kg)
Weight - Stainless Steel	15 lbs (7 kg)	20 lbs (9 kg)	22 lbs (10 kg)	24 lbs (11 kg)	23 lbs (10.5 kg)	35 lbs. (16 kg)	51 lbs. (23 kg)	88 lbs. (40 kg)	-	-

2" Octave is offered in 10" length with an optional add-on of a 3", a 5.25" or a 7" spool. Gaskets, nuts, bolts, & washers are included in weights of 13", 15.25" and 17".



Master Meter, Inc.

Toll Free: 800.765.6518

Fax: 817.842.8100

innovate@mastermeter.com

NOTE — For Performance charts please see **Engineering Document - Octave | Version 10.17**