



Available in sizes 1.5", 2", 3", 4", 6", 8", 10", and 12"

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 - 33° - 122 °F

Metrological Characteristics - Meets ANSI/AWWA Standards C715-18, C750-19, ISO 4064 rev. 2014

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 Encoder, Pulse, 4-20, or Modbus; Optional dual output available in encoder + pulse

Features & Benefits:

- Grade 316 Stainless Steel (2"-8") or Epoxy Coated Ductile Iron (10"-12") body design provides full compliance with ANSI/NSF 372 (AB1953 or NSF61G).
- No moving parts. Minimal flow intrusion. Enduring accuracy.
- Easy to install Floating Flanges on 2"-8" and Integrated Flanges on 10"-12".
- No required strainer.
- Wide beam ultrasonic measurement sensors for high accuracy and reliable operation.
- Industry standard communication protocol for integration with most third-party AMR/AMI systems.
- Active leak, burst, reverse flow, empty pipe, measurement failure, and low battery. LCD also displays rate of flow and water temperature.
- 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).



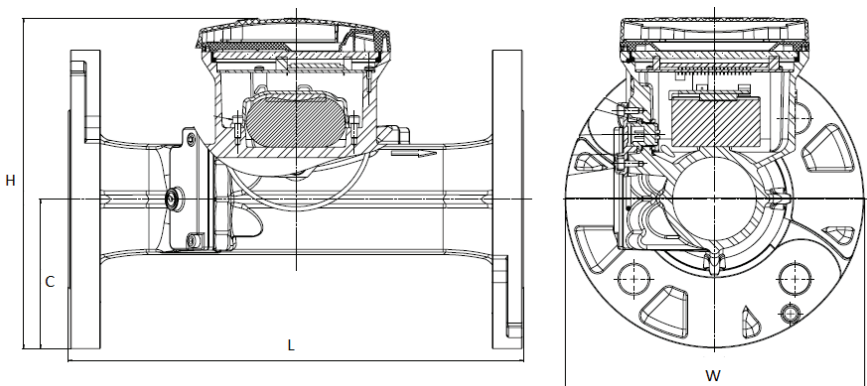
Performance Data & Dimensions

| Octave Operating Characteristics and Dimensions | 1.5"x13" (40 mm) | 2"x10" (50 mm) | 2"x15.25" (50 mm) | 2"x17" (50 mm) |
|---|---|---|---|---|
| Safe Maximum Operating Capacity | 250 GPM (57 m ³ /h) | 250 GPM (57 m ³ /h) | 250 GPM (57 m ³ /h) | 250 GPM (57 m ³ /h) |
| Normal Operating Range (98.5% - 101.5% Accuracy) * | 0.50 – 250 GPM (0.11 – 57 m ³ /h) | 0.50 – 250 GPM (0.11 – 57 m ³ /h) | 0.50 – 250 GPM (0.11 – 57 m ³ /h) | 0.50 – 250 GPM (0.11 – 57 m ³ /h) |
| Extended Low Flow (97% - 103% Accuracy) | 0.25 GPM (0.06 m ³ /h) | 0.25 GPM (0.06 m ³ /h) | 0.25 GPM (0.06 m ³ /h) | 0.25 GPM (0.06 m ³ /h) |
| Length | 13" (330 mm) | 10" (250 mm) | 15.25" (390 mm) | 17" (432 mm) |
| Width | 5-3/4" (146 mm) | 5-3/4" (146 mm) | 5-3/4" (146 mm) | 5-3/4" (146 mm) |
| Height | 6-3/4" (172 mm) | 6-3/4" (172 mm) | 6-3/4" (172 mm) | 6-3/4" (172 mm) |
| Height from Center Pipe | 2-1/8" (54 mm) | 2-1/8" (54 mm) | 2-1/8" (54 mm) | 2-1/8" (54 mm) |
| Weight | 20 lbs (9 kg) | 15 lbs (7 kg) | 22 lbs (10 kg) | 24 lbs (11 kg) |

* In the water temperature of 45° to 85° F (7° to 30° C), meter consumption is accurately measured at:
 • +/- 1.5% in the Normal Operating Range
 • +/- 5% in the Extended Low Flow

| Octave Operating Characteristics and Dimensions | 3" (80 mm) | 4" (100 mm) | 6" (150 mm) | 8" (200 mm) | 10" (250 mm) | 12" (300 mm) |
|---|---|---|---|--|---|---|
| Safe Maximum Operating Capacity | 500 GPM (114 m ³ /h) | 1,000 GPM (227 m ³ /h) | 1,600 GPM (363 m ³ /h) | 2,800 GPM (636 m ³ /h) | 5,500 GPM (1,250 m ³ /h) | 5,500 GPM (1,250 m ³ /h) |
| Normal Operating Range (98.5% - 101.5% Accuracy) * | 1 – 500 GPM (0.23 – 114 m ³ /h) | 1.5 – 1,000 GPM (0.34 – 227 m ³ /h) | 3 – 1,600 GPM (0.68 – 363 m ³ /h) | 5 – 2,800 GPM (1.5 – 636 m ³ /h) | 14 – 5,500 GPM (3.2 – 1,250 m ³ /h) | 14 – 5,500 GPM (3.2 – 1,250 m ³ /h) |
| Extended Low Flow (97% - 103% Accuracy) | 0.5 GPM (0.11 m ³ /h) | 0.75 GPM (0.17 m ³ /h) | 2 GPM (0.45 m ³ /h) | 4 GPM (0.9 m ³ /h) | 8 GPM (1.8 m ³ /h) | 8 GPM (1.8 m ³ /h) |
| Length | 12" (305 mm) | 14" (356 mm) | 18" (457 mm) | 20" (508 mm) | 17-3/4" (451 mm) | 19-3/4" (502 mm) |
| Width | 7-1/2" (190 mm) | 9" (229 mm) | 11" (280 mm) | 13-1/2" (343 mm) | 16" (406 mm) | 19-3/4" (502 mm) |
| Height | 8-1/2" (216 mm) | 9-7/8" (250 mm) | 10-7/8" (276 mm) | 12-7/8" (327 mm) | 16-1/2" (419 mm) | 19-3/4" (502 mm) |
| Height from Center Pipe | 3-1/2" (90 mm) | 4-1/2" (115 mm) | 5-1/8" (130 mm) | 6-3/8" (162 mm) | 8" (203 mm) | 9-7/8" (251 mm) |
| Weight | 23 lbs (10.5 kg) | 35 lbs (16 kg) | 51 lbs (23 kg) | 78 lbs (35 kg) | 150 lbs (68 kg) | 210 lbs (96 kg) |

* In the water temperature of 45° to 85° F (7° to 30° C), meter consumption is accurately measured at:
 • +/- 1.5% in the Normal Operating Range
 • +/- 5% in the Extended Low Flow



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