OCTAVE® ULTRASONIC METER

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.

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).

Technical Specifications:

- **Working Pressure**: 175 PSI
- **Liquid Temperature**: 33° - 122 °F
- **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

Available in sizes 1.5”, 2”, 3”, 4”, 6”, 8”, 10”, and 12”
Performance Data & Dimensions

### Octave Operating Characteristics and Dimensions

<table>
<thead>
<tr>
<th>Column 1</th>
<th>1.5”x1.5”</th>
<th>2”x2.0”</th>
<th>2”x3.0”</th>
<th>2”x4.75”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safe Maximum Operating Capacity</td>
<td>250 GPM (57 m³/h)</td>
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<td>250 GPM (57 m³/h)</td>
</tr>
<tr>
<td>Normal Operating Range (98.5% - 101.5% Accuracy)</td>
<td>0.50 – 250 GPM (0.11 – 57 m³/h)</td>
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</tr>
<tr>
<td>Extended Low Flow (97% - 103% Accuracy)</td>
<td>0.25 GPM (0.06 m³/h)</td>
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</tr>
<tr>
<td>Length</td>
<td>13” (330 mm)</td>
<td>10” (250 mm)</td>
<td>15.25” (380 mm)</td>
<td>17” (432 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>5-3/4” (146 mm)</td>
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</tr>
<tr>
<td>Height</td>
<td>6-3/4” (172 mm)</td>
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</tr>
<tr>
<td>Height from Center Pipe</td>
<td>2-1/8” (54 mm)</td>
<td>2-1/8” (54 mm)</td>
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<td>2-1/8” (54 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>20 lbs (9 kg)</td>
<td>15 lbs (7 kg)</td>
<td>22 lbs (10 kg)</td>
<td>24 lbs (11 kg)</td>
</tr>
</tbody>
</table>

* 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