APPLICATION

Ultrasonic water meter QALCOSONIC W1 is designed for accurate measurement of water consumption in households, apartment buildings and small commercial premises, where low flow sensitivity is important.

- Static flow measurement – no moving parts, no wear and tear
- Very high metering accuracy
- Eliminates measuring deviations caused by sand, suspended particles or air pockets
- Long-term measurement stability and reliability
- 9 digits, multi-line LCD. Total volume and instantaneous flow rate indication at the same time

TECHNICAL FEATURES

- Sensitive in low flows – starting flow as low as 0.01 gpm
- Maintenance free device, battery lifetime > 16 years
- Installation in any position
- No straight pipework needed
- No measurement of air
- IP68 protection class
- Bi-directional flow measurement
- Durable composite body
- Measurement units: Gal-GPM, ft3-ft3/h
- Strainer and check valve (optional)

APPROVALS

- NSF/ANSI/CAN 61
- FCC part 15C

AMR INTERFACE

LoRaWAN CERTIFIED™
DATA LOGGER - HISTORY VALUES

- Hourly, daily, monthly values of the measured parameters are stored in internal memory

LCD INDICATIONS AND ALARM

MULTIPLE ALARMS AND EVENTS, INCLUDING:
- Flow direction indication
- Battery level indication
- Leakage
- Burst
- Backflow
- Empty pipe
- Radio communication
- Warning indication
- Low temperature warning

TECHNICAL DATA:

<table>
<thead>
<tr>
<th>Flow sensor sizes</th>
<th>¾&quot; x 7 ¼&quot; / 1&quot; x 10 ¾&quot; / 1 ½&quot; x 12 5/8&quot; *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow measurement</td>
<td>New meter measurement accuracy is within the following limits: ± 1.5% over the normal flow range ± 3.0% from the extended low flow range to the minimum flow value</td>
</tr>
<tr>
<td>Measured Fluid Temperature Range</td>
<td>33...194°F (0.1...+90°C) According to AWWA C715-18, measurement accuracy is maintained at water temperatures up to 80°F (+27°C).</td>
</tr>
<tr>
<td>Storage Temperature (empty flow sensor)</td>
<td>-13 ...158°F (-25...+70°C)</td>
</tr>
<tr>
<td>Protection class [IP]</td>
<td>IP68</td>
</tr>
<tr>
<td>Installation</td>
<td>Indoors or outdoors</td>
</tr>
<tr>
<td>Battery</td>
<td>3.6-volt lithium thionyl chloride; battery is not replaceable; 16-year battery life</td>
</tr>
</tbody>
</table>

* Remark: estimated availability of 1 ½" x 12 5/8" size – 01/2022
## SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Specification</th>
<th>¾&quot; short</th>
<th>1&quot;</th>
<th>1½&quot; *</th>
</tr>
</thead>
<tbody>
<tr>
<td>QALCOSONIC W1 meter size</td>
<td>¾&quot; x 7 ½&quot;</td>
<td>1&quot; x 10 ½&quot;</td>
<td>1½&quot; x 12 5/8&quot;</td>
</tr>
<tr>
<td>Size Designation x Lay Length</td>
<td>(20 x 190 mm)</td>
<td>(25 x 273 mm)</td>
<td>(40 x 324 mm)</td>
</tr>
<tr>
<td>Max Ambient Humidity</td>
<td>0...100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Register Type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Register Display</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Consumption (US gallons of cubic feet)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Flow rate (US gallons per minute or cubic feet per hour)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Alarms and error codes (if any)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Flow direction indication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Radio active</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Register Capacity</td>
<td>999.999.999</td>
<td>999.999.999</td>
<td></td>
</tr>
<tr>
<td>Display Resolution in TEST mode</td>
<td>Gallons: 0.XXX</td>
<td>Cubic feet: 0.XXX</td>
<td></td>
</tr>
<tr>
<td>* Remark: estimated availability of 1½&quot; x 12 5/8&quot; size – 01/2022.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>