# Aqua M-300D

## Technical Specifications

<table>
<thead>
<tr>
<th>Operation modes</th>
<th>Minimal display (bar chart) frequency spectrum pyramid mode long term measurement tracer gas leak detection real time display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter</td>
<td>Analog Chebyshev 48-dB / octave slope 256 freely selectable analog and digital filter stages automatic function</td>
</tr>
<tr>
<td>Gain</td>
<td>Manual: &gt; 60000 times automatic: shut off hearing protection</td>
</tr>
<tr>
<td>Operation</td>
<td>Buttons / encoders / touch active assistance</td>
</tr>
<tr>
<td>Display</td>
<td>Daylight readable color display with LCD backlight 480 x 272 pixels</td>
</tr>
<tr>
<td>Power supply</td>
<td>4 x LR14 1.5 V or rechargeable batteries</td>
</tr>
<tr>
<td>Operating time</td>
<td>&gt; 14 hours</td>
</tr>
<tr>
<td>Housing</td>
<td>Aluminium powder coated</td>
</tr>
<tr>
<td>Dimensions</td>
<td>201 x 160 x 80 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1800 g with batteries</td>
</tr>
<tr>
<td>Protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>Operating: -10 C to +55 C Storage: -20 C to +60 C</td>
</tr>
</tbody>
</table>

## Sensors

- **Acoustic sensor sensitivity**: > 1000 pC/g
- **Acoustic sensor weight**: Universal microphone: approx. 670 g Ground microphone: approx. 2300 g Test rod: approx. 1250 g
- **Acoustic sensor protection**: Universal microphone: IP 65 Ground microphone: IP 54 Test rod: IP 54

- **Acoustic sensor operating**: Operating: -05 C to +55 C Storage: -20 C to +60 C
- **Gas sensor sensitivity**: 1 ppm H2
- **Gas sensor range**: 10 ppm to 50,000 ppm
- **Gas sensor response time**: 0.5 sec

## Extent of Supply

- Headphone
- Universal ground microphone
- Subsonic tip
- Wind protected ground microphone
- Test rod microphone
- Magnetic adapter
- Tripod adapter
- Snap
- Hi-probe
- Hi-ground probe
- PC connection cable
- Software
- Transport case
- User manual

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**Technical changes reserved.**

**RJM Equipment Sales, Inc**

**www.rjmcompany.com**

**sales@rjmcompany.com**

**800-620-4773**
Aqua M-300D

Acoustic Leak Detection with Geophones

A clear and concise display supports the leak statement effectively. 256-free and automatic adjustable filter settings achieve effective reduction of noise pollution and best results. Thus the automatic adjustment of amplification and filters the display off smallest leaks is certain.

Tracer Gas Detection

Even the most advanced filter cannot suppress any interference noise, because this noise is only partially audible. For this instance the Aqua M-300D is fitted with the ultimate tracer gas technology to localize the leak (5 % Hydrogen 85 % Nitrogen). This decades proven, safe and accepted method by the international Water Wise Associations (DVGW, WQA, AWWA etc.) is now available for the first time in this smart combination.

Artificial intelligence? - No, but a lot of Innovation!

The pyramid mode determined by means of intelligent algorithms in the background automatically optimizes the leak information and thereby enables an unmatched precision in the positioning of the leak. By using these innovative and unique methods of measurement and ultimate Chebychev analog filter with 48 dB / octave slope, noise pollution effectively is eliminated.

The integrated data logger function provides the ultimate review of the leak. This is particularly useful in situations with high ambient noise. By recording the sound, till a maximum of one hour and closing the pipeline to check, the leak noise can be safely distinguished from pollution noises.

Tracing Plastic Pipe with PWG

The localization of plastic pipes is still a major challenge. The Aqua M-300D in combination with the PWG offers as an excellent complement to conventional systems, like ground radar and fiberglass detection probes.