

# Aqua M-300D



- Extent of Supply**
- 1 Headphone
  - 2 Universal ground microphone
  - 3 Extension with tip
  - 4 Wind protected ground microphone
  - 5 Test rod microphone
  - 6 Magnetic adapter
  - 7 Tripod adapter
  - 8 Strap
  - 9 H<sub>2</sub> probe
  - 10 H<sub>2</sub> ground probe
  - PC connection cable
  - Software
  - Transport case
  - User manual

## Aqua M-300D

### Technical Specifications

<b>Operation modes</b>	minimal display (bar chart) frequency spectrum pyramid mode long term measurement tracer gas leak detection real time display
<b>Filter</b>	analog Chebyshev 48 dB / octave slope 256 freely selectable analog and digital filter stages automatic function
<b>Gain</b>	manual: > 60000 times automatic: shut off hearing protection
<b>Operation</b>	buttons / encoders / touch active assistance
<b>Display</b>	daylight readable color display with LED backlight 480 x 272 pixels
<b>Power supply</b>	4 x LR14 1.5 V or rechargeable batteries
<b>Operating time</b>	> 14 hours
<b>Housing</b>	aluminium powder coated
<b>Dimensions</b>	201 x 160 x 60 mm
<b>Weight</b>	1800 g with batteries
<b>Protection</b>	IP 54
<b>Operating temperature</b>	operating: - 10 C to + 55 C storage: - 20 C to + 60 C

### Sensors

<b>Acoustic sensor sensitivity</b>	> 1000 pC/g	
<b>Acoustic sensor weight</b>	universal microphone	approx. 870 g
	ground microphone	approx. 2300 g
	test rod	approx. 1250 g
<b>Acoustic sensor protection</b>	universal microphone	IP 65
	ground microphone	IP 54
	test rod	IP 54
<b>Acoustic sensor operating</b>	operating: - 05 C bis + 55 C storage: - 20 C bis + 60 C	
<b>Gas sensor sensitivity</b>	1 ppm H <sub>2</sub>	
<b>Gas sensor range</b>	10 ppm to 50,000 ppm	
<b>Gas sensor response time</b>	0.5 sec	
<b>Gas sensor weight</b>	hand sensor:	approx. 400 g
	ground sensor:	approx. 950 g
<b>Gas sensor protection</b>	hand sensor:	IP 65
	ground sensor:	IP 54
<b>Gas sensor operating temperature</b>	operating: - 10 C to + 55 C storage: - 20 C to + 60 C	
<b>Software</b>	data storage 10 per modus data export	
<b>Transport</b>	ABS plastic hard case	

ISO 9001:2000

### Intelligent Geophon for Leak Detection

- Pyramid mode
- 256 analog and digital filter stages
- Automatic function for filtering and amplification
- Long term measurement
- Tracer gas leak detection

FA.S.T. GmbH  
D-74243 Langenbrettach  
Bössingerstr. 36  
Telefon ++49(0)7946/92100-0  
Telefax ++49(0)7946/7153  
eMail info@fastgmbh.de  
[www.fastgmbh.de](http://www.fastgmbh.de)

\*Technical changes reserved

# Aqua M-300D

## Acoustic Leak Detection with Geophon



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

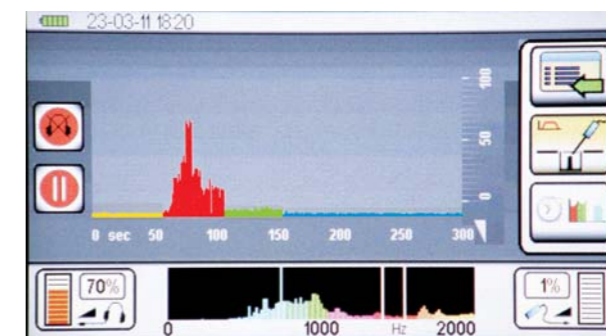
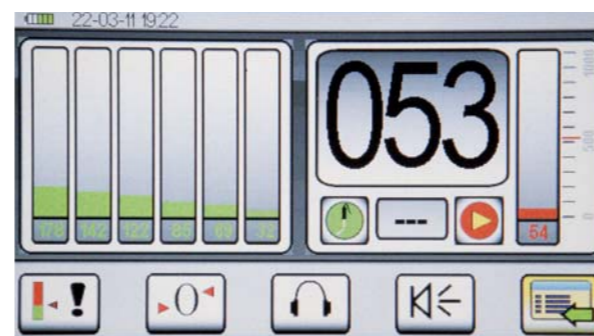
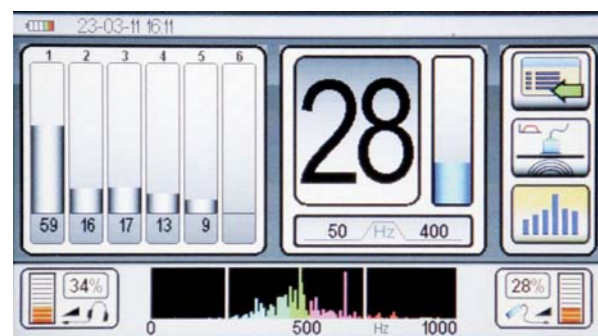
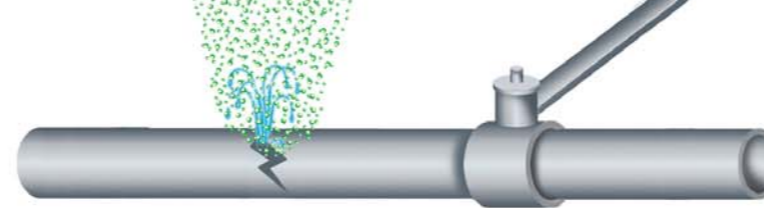
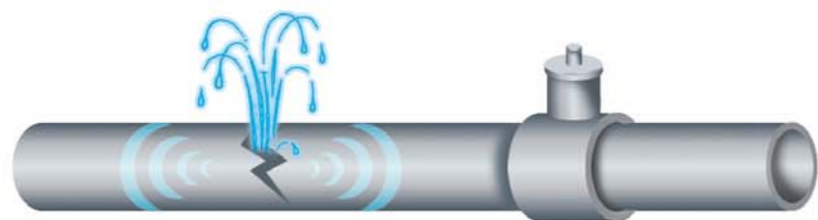
## Tracer Gas Detection

Even the most advanced filter cannot suppress any interference noise, because this some leak is only partially audible. For this instance the Aqua M-300D is fitted with the ultimate tracer gas technology to locate the leak. ( 5 % Hydrogen 95 % Nitrogen) This decades proven, safe and accepted method by the international Water Wise Associations ( DVGW, IWA , AWWA etc..) is now available for the first time in this smart combination .

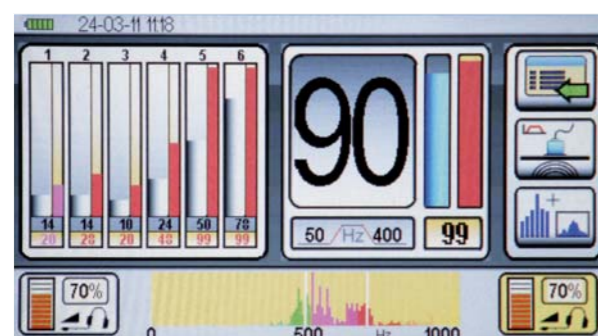


## Tracing Plastic Pipe with PWG

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.



## 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 Chebyshev 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.



Daylight readable  
Color Display with  
LED Backlight