

Aqua M-300D



ISO 9001:2000



- 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 H₂ probe
 - 10 H₂ ground probe
 - PC connection cable
 - Software
 - Transport case
 - User manual

Aqua M-300D

Technical Specifications

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

Sensors

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

*Technical changes reserved



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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.

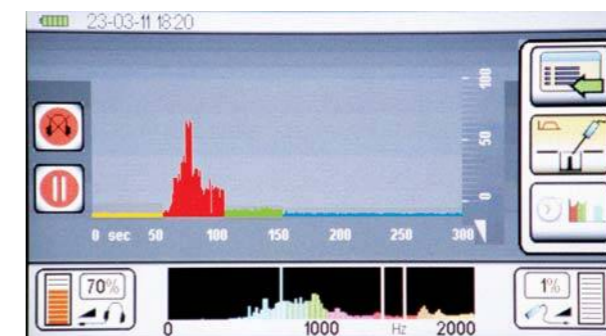
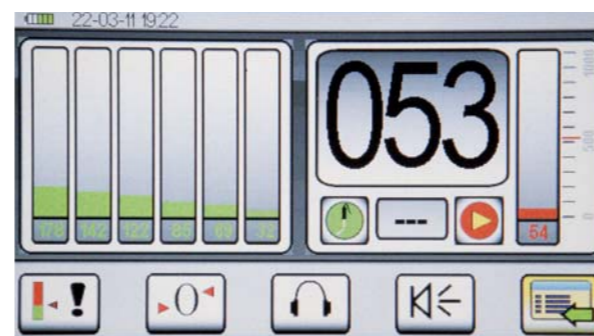
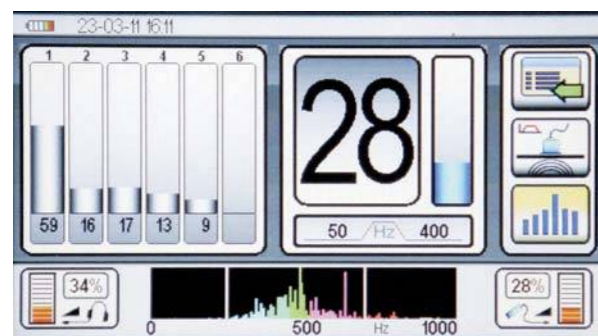
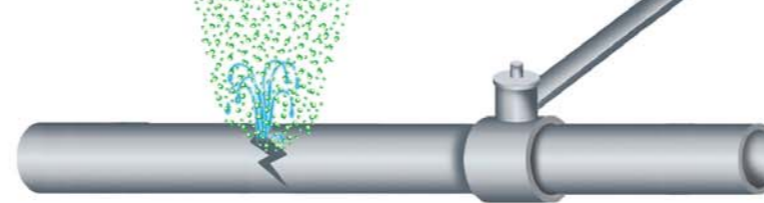
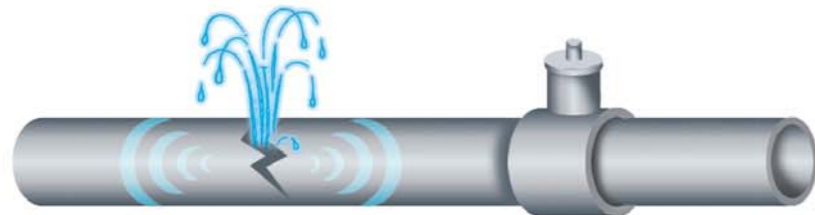
Tracer Gas Detection

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 .

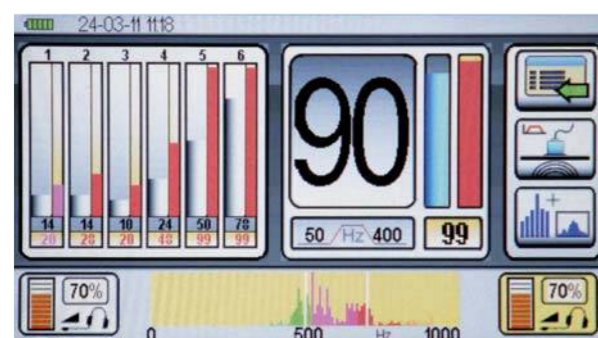


Tracing Plastic Pipe with PWG

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