



## MIKRON<sup>3</sup>

Advanced ground microphone system for locating water leaks on site

SENSOR SPECIFICATION		Listening Rod	Ground Microphone	Accelerometer
Sensor type		Ceramic piezoelectric	Ceramic piezoelectric within windproof rubber housing	Accelerometer
Sensitivity		20V/g	20V/g	10V/g
Frequency response		10 – 5000 Hz	10 – 5000 Hz	10 – 5000 Hz
Cable length		N/A	N/A	2 m
Wireless Communications				
Type		Purepath™ (trademark of Texas Instruments)	Purepath™ (trademark of Texas Instruments)	N/A
Operating frequency		2.4GHz (ISM band)	2.4GHz (ISM band)	N/A
Output power		5dBm / 3.1mW	5dBm / 3.1mW	N/A
Wireless operating range		≤6 metres	≤6 metres	N/A
Power				
Type		Nickel Metal Hydride (rechargeable)	Nickel Metal Hydride (rechargeable)	N/A
Operating life		≥10 hours continuous use from full charge	≥10 hours continuous use from full charge	N/A
Environmental				
Operating temperature		-10°C to +50°C	-10°C to +50°C	-10°C to +50°C
Maximum humidity		90%	90%	100%
Water ingress protection		IP65	IP65	IP68
Dimensions		235 x 45 mm diameter	170 x 180mm diameter	175 x 40mm diameter (body, no cable)
Weight		0.7kg (without rods)	1.85kg (without handle)	0.6kg (with 2m cable)
PROCESSOR SPECIFICATION		Mini	Pro	PrimeTouch
Operation		Listening only	Listening + minimum noise display and filter control	Listening + minimum noise display and maximum filter control
Filters				
Hi pass		N/A	15, 60, 100, 200, 350, 500 Hz	0-5500Hz user selectable
Low pass		N/A	600, 1000, 1500, 2000, 3500, 5000 Hz	N/A
Display				
Type		N/A	Graphic, 240 x 160 LCD	Resistive touch screen 100mm x 132mm
Display of leak noise		N/A	Minimum noise or log modes	Minimum dB values, max frequency
Suitable for use in sunlight		N/A	N/A	Yes
GPS position feature		N/A	N/A	No
Direct signal input		N/A	N/A	N/A
Internal memory		N/A	N/A	4GB
Leak noise data storage (internal memory)		N/A	N/A	WAV file
USB ports		N/A	N/A	2
Power				
Type		Nickel Metal Hydride (rechargeable)	Nickel Metal Hydride (rechargeable)	Nickel Metal Hydride (rechargeable)
Operating life		≥10 hours continuous use from full charge	≥10 hours continuous use from full charge	7 hours (recharge time 4 hours depending on temp)
Environmental				
Operating temperature		-10°C to +50°C	-10°C to +50°C	-10°C to +50°C
Water ingress protection		IP65 (headphone cover attached)	IP65 (headphone cover attached)	IP53
Dimensions		140 x 82 x 32 mm	82 x 121 x 46 mm	205 x 205 x 90 mm
Weight		0.3kg	0.7kg	1.35kg

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