

iQ100b

Mobile Leak Detection by an Innovative Wireless Acoustic Sensor

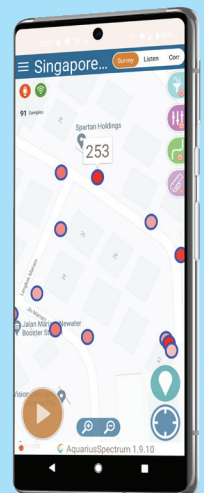
Simply survey and pinpoint water
leakages with a game changing
Bluetooth device



A Piezo based wireless audio recorder (single channel) replacing the legacy iQ100 product. Intended for quick and simple leak survey. Robust design that fits both onto an M8 thread of the listening stick and an attachment magnet. Connecting to the AQS cloud with any mobile phone platform (Android / iOS).

Key Features:

- Realtime streaming of the sample to the AQS cloud and to mobile phone headset
- Connect to any mobile phone platform (Android / iOS)
- Robust IP67 enclosure
- Rechargeable battery that fits 5 days of survey between charging
- Buttons and LED feedback on board the device – allowing to interact directly with the sensor
- Built in self-test / built in self-calibration



Preliminary Specification:

Audio / Recording performance	
Sampling Frequency	8KHz (configurable)
Dynamic Range	24bit
Noise cancelation	Internal EMI suppression
Audio streaming delay	<0.5 seconds
Wireless Connection	
Connection type	BLE 5.0 (2.4GHz)
Antenna	Internal chip antenna -2dBi
Transmit power	+10dBm
Interface	
Buttons	2 buttons to power up/down, BLE pair, Record
LEDs	Daylight RGB LED: Blue – BLE Green – Power mode On/Off, Charging status RED – Recording
Identification	Unique ID for each device, blink & vibrate on request
Power Consumption	
Internal battery	Rechargeable Li-Ion 660mA/H (IEC62133, UN38.3)
Battery protection circuit	Shortcut, Over-voltage (4.2V), Over-discharge (3.0V)
Operation time between recharge	112 hours
Full cycle recharging	<5 hours
Charging port	Magnetic pogo pin at 5V (using a standard mobile phone charger)
Rechargeable battery life	>3.5 years, may be replaced on device service
Power management	Auto sleep / Auto shutdown
Miscellaneous	
Firmware upgrade	Over BLE
Push buttons durability	>100K press
Attachment magnet interface	Supplied with 2 magnets: N12 and N19 grade
Operational temperature range	(-4F° to 140F°) (-20C° to 60°C)
Dimensions	(H= 4.92", Ø1.85") (H=125mm, Ø47mm)
Weight	7oz (200 gr)
Certification	UL94-V0, CE, FCC

