

DATA SHEET

CALMS ULD - Ultrasound Leak Detector

ULD is USB Ultrasonic microphone for Android smartphones and tablets with driver and application for Compressed Air Leak detection and management with **real leak cost calculation**.

Benefits & Features

- Fast Leak Detection
- Immediate Flow and Cost estimation
- CALMS Leak Management System Synchronization
- FFT Graphical Leak detection
- Data Export option (csv)
- Save energy costs on Leaks, Inappropriate uses & artificial demand
- Save your time and improve the organization
- Improve your environmental image
- **ISO 11011, Compressed Air Assessment compliant**



Microphone

The MEMS (Micro Electro-Mechanical Systems) microphone is very sensitive, with a good signal/noise ratio and small form factor.

Connections

Connect ULD sensor to your Android smartphone or tablet, and it will immediately be recognized as a new input. Additionally you have to connect Bluetooth wireless headphone. With CALMS ULD Android software ULD sensor will be recognized and ready to find leaks. Next step is to login to CALMS web service and sync data to start doing Leak Management.

See table below for Android device compatibility.

Settings

ULD is factory set to work with CALMS ULD software. No field adjustment needed.

SPECIFICATION:

Description	CALMS ULD
Sensor	MEMS high sensitivity ultrasonic acoustic sensor
CPU	Integrated micro-controller 32 bit
Type	Digital, with high quality low noise analog pre-amplification
Sampling rate	190 samples / second
Frequency range	96 kHz
Resolution	16 bit
Communication	USB 2.0
Software	ULD for Android ver.6 or higher with USB OTG *
Operating Range	0 – 45 C
Power supply	USB 5Vdc
Size	L 130 mm x W 18 mm
Weight	120 g
Materials	Enclosure: ALU, Cable Entry ABS plastic, EPDM rubber
Phone Holder	Yes (up to 5.5")
Scope of supply	ULD detector, holder, USB cable Type C or B, Bluetooth Headphones
EMC	EC 2004/108/CE, 2006/95/CE
Class	IP54
Approvals	CE

- Tested devices: Samsung Galaxy S with OTG, Nexus X5, LG.. for more please contact info@calms.eu