

$\mu Z-30$

Overview and use scenario

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A Redu-Sone Company



μ Z-30 is an impedance (Kundt's) tube dedicated to the acoustic characterization of thin films (meshes and membranes). Key features:

- Measures equivalent acoustic series impedance (mks rays or acoustic ohms) for samples with a maximum diameter of \varnothing 30 mm.
- Frequency range 20 Hz - 6 kHz
- Resilient to background noise
- Measures from one side of the sample:
 - ▶ Normal incidence sound absorption
 - ▶ Sample reflection coefficient
 - ▶ Sample series impedance
 - ▶ Input impedance
- We offer the complete system including microphones, speaker, DAQ and software to measure, post-process and visualize results.

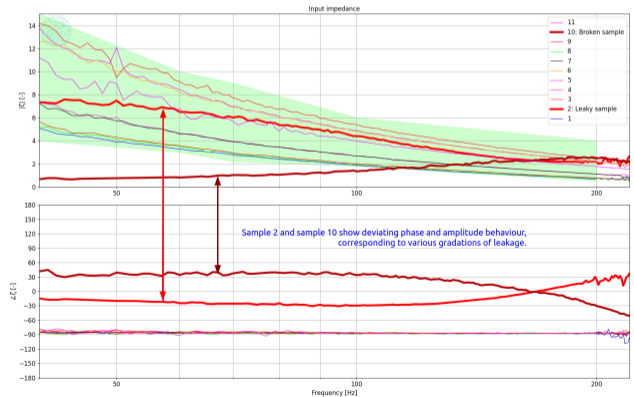
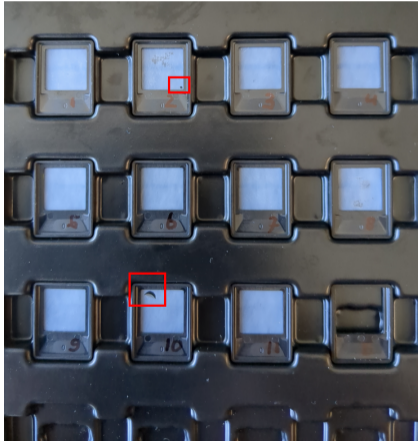




- Acoustic integrity validation for MEMS speaker protection covers.



← Sample holder





- The measurement and postprocessing software is ACME. Key features:

- ▶ Sound Level Meter, (fractional) octave band analysis
- ▶ Power spectra estimator
- ▶ Transfer function estimator
- ▶ Insertion loss measurements
- ▶ Impedance tube calibration and measurements (μZ)
- ▶ Interact with DAQ devices:
 - ★ Configure DAQ device for IEPE-sensors
 - ★ Microphone calibration
 - ★ Signal generator (noise, sweep), equalizer

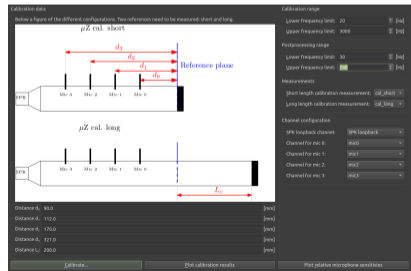
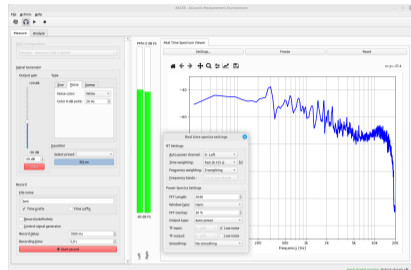
- Real time analysis:

- ▶ Real time power spectra, bode plots

- Post-processing:

- ▶ Graph markup and exporting of data

- Runs on Windows and Linux





For inquiries or more information, please contact us:

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