In-situ absorption setup

Microflown Technologies offers a complete solution to measure the acoustic properties of materials with its **In-situ absorption setup**. This method is an alternative for the well known Kundt's method or reverberant room method. Taking (destructive) samples is no longer required. The system can even measure, next to material samples, complete assembled parts. Extremely high spatial resolution allows analysis of inhomogeneous, e.g. perforated, materials. As the **in situ method** also works with a relative movement between sample and probe and with relatively high level of background noise or reflections, end of line control of materials has become possible.

**The Absorption gun**

With a small, handheld absorption gun the broad banded acoustic absorption, reflection or impedance can be measured in just a few minutes. With a sound source at 23cm from the probe the noise is generated towards the sample. The sound pressure and acoustic particle velocity are measured near the surface of the material.

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**Application features**

- Frequency range 300Hz - 10kHz
- No need for anechoic conditions
- In situ method
- Non destructive method
- High spatial resolution
- Complex impedance, reflection and absorption
- Flat & curved surfaces
- Homogeneous & inhomogeneous materials
- Can be used for:
  - Product development
  - End of line control before and after assembly