

Technical Data Sheet

Structure-Borne Sound Probe T10



The Structure-Borne Sound Probe T10 is used for condition monitoring of machines, plants and processes where detectable structure-borne sound in the ultrasonic range is generated. Changes in the sound signals indicate a change in the condition and/or process of the test object. The detection of these changes forms the basis for condition monitoring in preventive maintenance.

The Structure-Borne Sound Probe T10 is used when the installation space is very limited or the test object must not be loaded with a large sensor mass. The Structure-Borne Sound Probe T10 is also suitable for use on non-magnetic surfaces.

The type of coupling depends on the type of test. The probe can be coupled by hand for short-term measurements or fixed with beeswax for recurring measurements with recording of measurement data. For permanent monitoring or fixed mounting within a safety cover/zone, the probe is glued on.

| General data | |
|------------------------|---|
| Order number | 100 01 0378 |
| Dimensions (L × W × H) | □ 11 × 9 mm (housing without connector) |
| Weight | 5 g |
| Electrical connection | UNF 10-32 (Microdot) |

| Acoustic data | |
|------------------|--|
| Center frequency | 25,0 ± 3,0 kHz |
| Sensitivity | 6,0 mV / 1 m/s ² @ center frequency |

① The specified acoustic data apply from a frequency of 5 kHz.

Materials

| | |
|--------------------|-----------------|
| Housing | Stainless steel |
| Probe delay | PEEK |

Ambient conditions

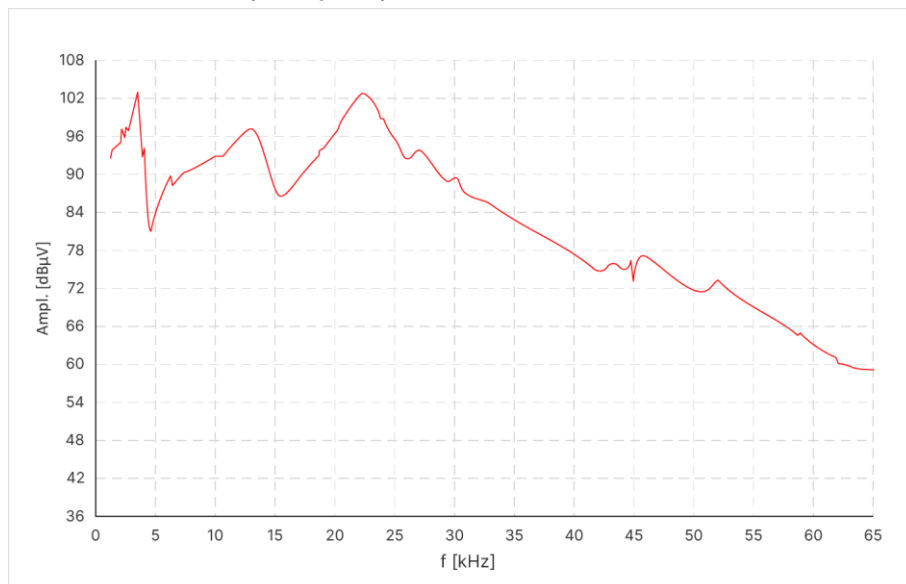
| | |
|--------------------------------------|-----------------|
| Operating/storage temperature | -40 ... +110 °C |
| Protection type | IP64 |

Order details

| | |
|--------------------------|--|
| Scope of delivery | <ul style="list-style-type: none"> • Structure-Borne Sound Probe T10 • Sensor cable UNF 12-32 – BNC, 1,5 m • Transportation case • Calibration certificate • Technical data sheet |
|--------------------------|--|

Frequency response

Frequency response at excitation 20 m/s²



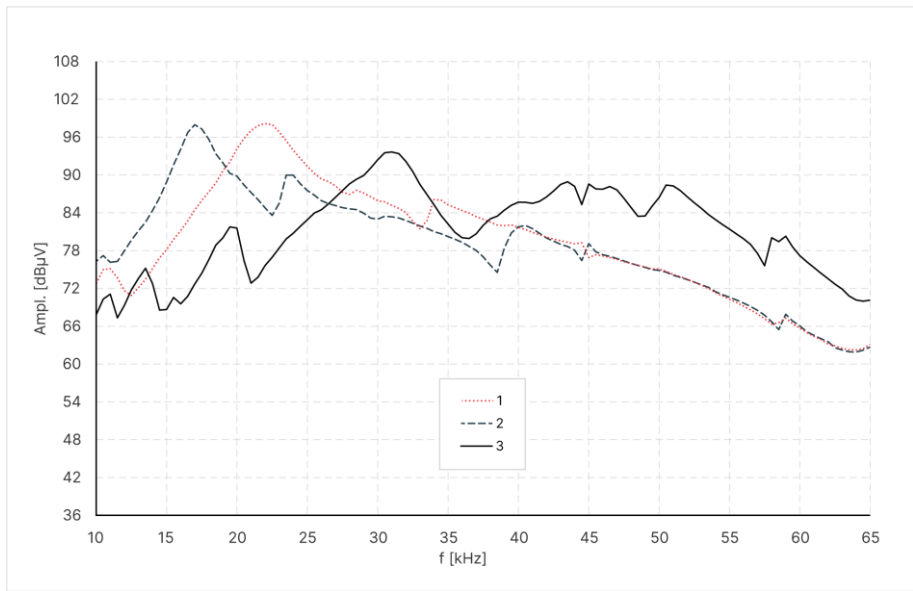


| Coupling | | | |
|--|---|--|--|
| Inspection method | Short-term measurement | Recurring measurement with recording of measurement data | Permanent monitoring/ fixed mounting |
| Couplant / coupling accessories (recommended) | Grease (Vaseline), Coupling oil or gel for ultrasonic testing | Beeswax | Cyanoacrylate adhesive (e.g. Loctite 401) or grease (Vaseline), coupling oil or gel in combination with clamping mechanism |
| Coupling method | 1: Pressing on by hand | 2: Fixing with beeswax (short-term coupling) | 3: Gluing/ installing (long-term coupling) |

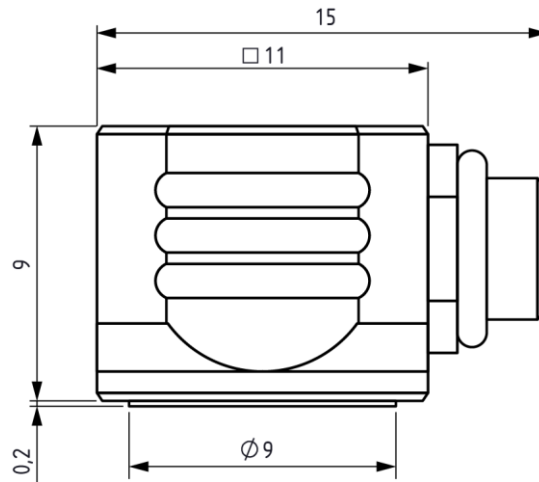
ATTENTION
The coupling method has a significant influence on the measurement results!

Frequency response depending on the coupling method

Frequency response at excitation 20 m/s²



Technical drawing



Drawings are not to scale. Dimensions in mm, unless otherwise specified. Information is subject to change without notice.

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