

# **Technical Data Sheet**

## Structure-Borne Sound Probe T20

The Structure-Borne Sound Probe T20 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 T20 is used when installation space is limited and the machine surface or test point is preferably magnetic.

The type of coupling depends on the type of test. For recurring measurements with recording of measurement data, the probe can be fixed with a magnetic base or universal magnet. For permanent monitoring or fixed mounting within a safety cover/zone, the probe is screwed on with a grub screw.

General data		
Order number	100 01 0391	
Dimensions (L × W × H)	Ø 24 $\times$ 21,5 mm (housing without connector)	
Weight	40 g	
Electrical connection	UNF 10-32 (Microdot)	
Acoustic data		
Sensitivity	1,5 mV / 1 m/s² @ 40 kHz	

Materials		
Housing	Stainless steel	
Protective cap	Silicone	
Ambient conditions		
Operating/storage ten	nperature -20 +65 °C	
Protection type	IP64	
Order details		
Scope of delivery	<ul> <li>Structure-Borne Sound Probe T20</li> <li>Protective cap</li> <li>Calibration certificate</li> <li>Technical data sheet</li> </ul>	
Accessories	Sensor cable for T10 UNF 10-32	800 01 0068
	Magnetic waveguide BS20-3	300 01 0097
	Flat Surface Magnetic Base	300 01 0102
	Multi-Purpose Magnetic Base	300 01 0103
	Mounting Stud M5 to 1/4"-28	300 01 0106
	Mounting Pad (1 pce.)	300 01 0104
	Plastic Welder Adhesive Kit	300 01 0105



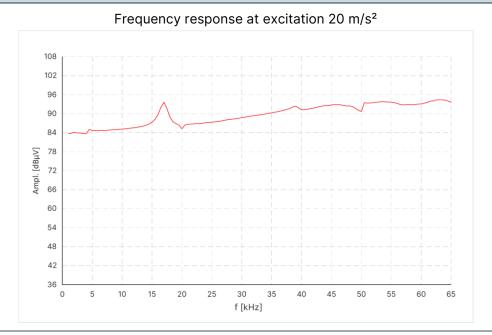
Figure 1: Structure-Borne Sound Probe T20



Figure 2: Structure-Borne Sound Probe T20 with protective cap



### **Frequency response**

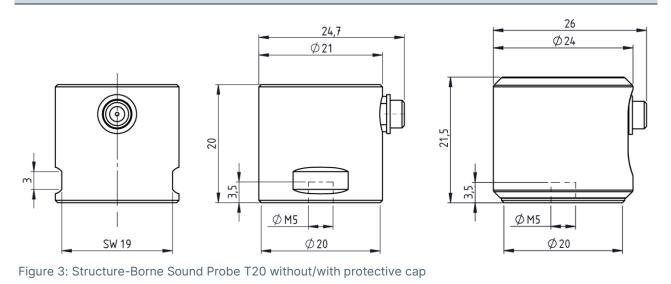


Coupling		
Inspection method	Recurring measurement with recording of measurement data	Permanent monitoring / fixed mounting
Couplant / coupling accessories (recommended)	Flat Surface Magnetic Base or Multi-Purpose Magnetic Base (see Order details – Accessories)	Glued mounting plate on the machine surface or existing test point and thread adapter (see Order details – Accessories)
Coupling method	Magnetic connection with the machine surface or test point	Screw on (long-term coupling)

## ATTENTION

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

## **Technical drawing**



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

**Contact USA** 

#### Manufacturer

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