

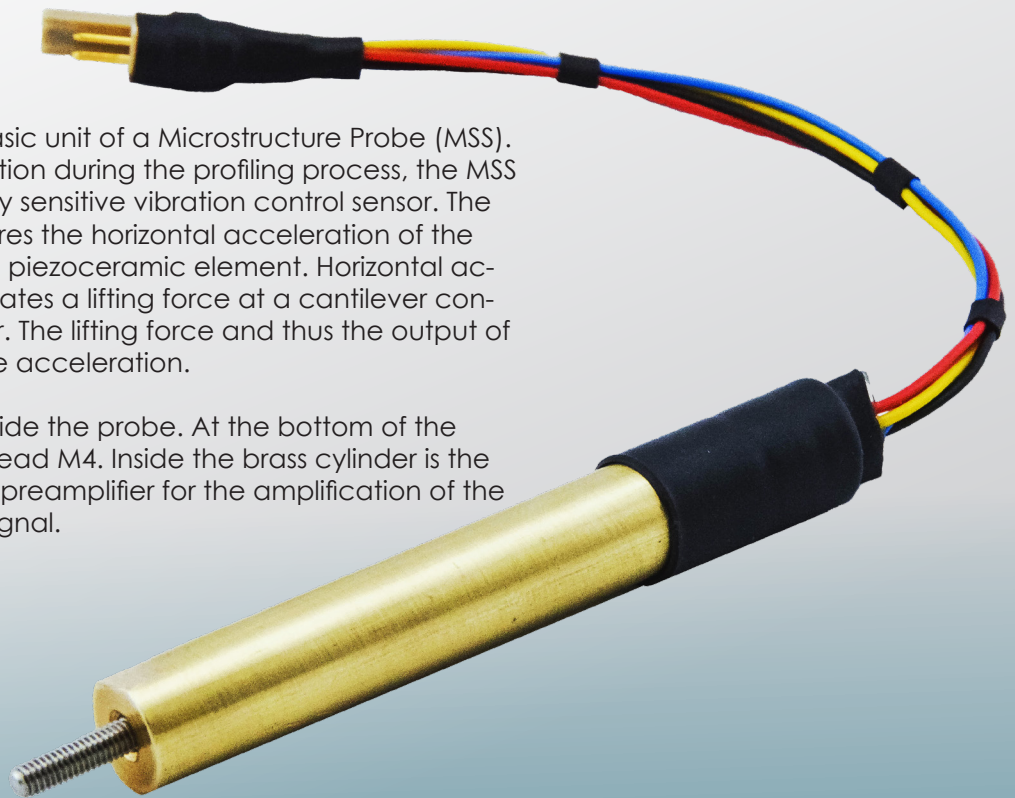
## Acceleration sensor | SST-ISW



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Technology

The acceleration sensor is a basic unit of a Microstructure Probe (MSS). To determine the level of vibration during the profiling process, the MSS probe is equipped with a highly sensitive vibration control sensor. The vibration control sensor measures the horizontal acceleration of the profiler in one direction using a piezoceramic element. Horizontal acceleration of the profiler generates a lifting force at a cantilever construction inside the ACC-sensor. The lifting force and thus the output of the sensor is proportional to the acceleration.

The ACC-sensor is mounted inside the probe. At the bottom of the ACC housing is a mounting thread M4. Inside the brass cylinder is the piezo element and a tiny SMD preamplifier for the amplification of the ultra high impedance sensor signal.



### Acceleration sensor / SST-ISW

Dimension	10 mm diameter, 70 mm lenght
Material	Brass
Response time	4 ms
Principle	Piezo element
Used for	MSS60, MSS90, MSS90L, MSS90LH, MSS90D, MSS90DH, MSS90DM, MSS90DMH



Sea & Sun Technology GmbH  
Arndtstrasse 9-13  
24610 Trappenkamp Germany  
+49 4323 91 09 13  
+49 4323 91 09 15  
sales@sea-sun-tech.com  
www.sea-sun-tech.com