## **SV 105 Hand-Arm Vibration Accelerometer**

The SV 105 accelerometer is dedicated for hand-arm vibration measurements with the SV 106 human vibration analyser. The accelerometer have a built-in memory (TEDS) containing information about the sensitivity that is automatically transferred to the SV 106 instrument. The SV 105 should be worn directly on the operator's hand. The accelerometer has a high shock resistance, no DC-shift effect and consume much less energy than IEPE / ICP sensors.



## **Technical Specifications**

Accessories:

SA 105 (optional)

Performance:	
Number of Axes	3
Sensitivity (± 5 %)	0.661 mV/ms <sup>-2</sup> at 79.58 Hz
Measurement Range	
Frequency Response (by design guideline, ± 3 dB)	0 Hz ÷ 1500 Hz
Resonant Frequency	16.5 kHz (MEMS transducer)
Electrical Noise	< 0,14 ms <sup>-2</sup> RMS, Wh weighting
Electrical:	
Supply Current	< 5.0 mA
Supply Voltage	3.3 V ÷ 5.5 V
Bias Voltage	$1.5 \text{ V} \pm 0.05 \text{ V}$
Output Impedance	51 Ohms
Charge / Discharge Time Constant (start-up time)	30 sec. typ.
TEDS Memory	installed (power supply pin)
Environmental Conditions:	
Maximum Vibration	100 000 ms <sup>-2</sup> shock survival for MEMS sensor
Temperature Coefficient	<+/-0.02 %/°C
Temperature	
Humidity	up to 90 % RH, non-condensed
Physical:	
Sensing Element	MEMS
Cable	integrated 1.4 meters
Connector	LEMO 5-pin plug (SV 106 compatible)
Dimensions	69.6 mm x 31.4 mm, thickness from 8.3 mm to 15 mm
Weight	50-60 grams (including cable and one of the vibration contact adapters)

calibration adapter

The policy of our company is to continually innovate and develop our products. Therefore, we reserve the right to change the specifications without prior notice.

