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

The SV 105F 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 105F 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. The SV 105F also features a force sensors to detect the contact and to exclude periods of time when the tool is not in use.



## **Technical Specifications**

Performance:	
Number of Axes	3
Sensitivity (± 5 %)	0.661 mV/ms <sup>-2</sup> at 79.58 Hz
Measurement Range	2000 ms <sup>-2</sup> PEAK
Frequency Response (by design guideline, ± 3 dB)	0 Hz ÷ 1500 Hz
Resonant Frequency	16.5 kHz (MEMS transducer)
Electrical Noise	
Force range	200 N
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	E4 01
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	
Temperature	from -10 °C to +50 °C
Humidity	up to 90 % RH, non-condensed
Physical:	
Sensing Element	MEMS
Cable	
Connector	
Dimensions	
Weight	
Accessories:	
SA 105 (optional)	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.

