## **SV38**

# **Whole-Body Vibration Accelerometer**

The SV 38 is a MEMS based triaxial accelerometer designed for whole-body seat vibration measurements with the SVAN 958A four-channel analyser.

The seat-pad meets ISO 8041:2005 and ISO 2631-1 requirements so it can be used for seat and seat-back vibration measurements.

For the periodic verification, the accelerometer can be easily removed from the seat pad and installed on a shaker with a dedicated SA 38 adapter (optional).



### **Technical Specifications**

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PPI	rtor	ma	nce.

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100 mV/(ms <sup>-2</sup> ) at 15.915 Hz
0.01 ms <sup>-2</sup> RMS $\div$ 50 ms <sup>-2</sup> PEAK
0.1 Hz ÷ 100 Hz
5 kHz (MEMS transducer)
< 316 μV RMS, HP1 weighting

#### Electrical:

Supply Current (IEPE)	$_1$ mA $\div$ 10 mA (2.5 mA typ.) per channel
Supply Voltage (IEPE)	_22 V ÷ 30 V (28 V typ.)
Bias Voltage (IEPE)	_15.3 V ± 0.5 V
Output Impedance	_51 Ohms
Charge / Discharge Time Constant (start-up time)	_30 sec. typ.
TEDS Memory	_Installed (Channel 1)

#### Environmental Conditions:

Maximum Vibration	_100 000 ms <sup>-2</sup> shock survival for MEMS sensor
Temperature Coefficient	_<+0.012 dB/°C
Temperature	from -10 °C to +50 °C
Humidity	up to 90 % RH, non-condensed

#### Physical:

Sensing Element	_MEMS
Cable	_integrated 1.4 meters long
Connector	_LEMO 4-pin plug (SVAN 958A compatible)
Dimensions	_236 mm diameter; thickness from 3.6 mm to 12 mm
Weight	_550 grams (including cable and rubber cushion)

#### Accessories:

SA 38 (optional)	Calibration adapter
SC 39S (optional)	Cable LEMO 4-pin socket to three BNC plugs, 0.7 meter

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.

