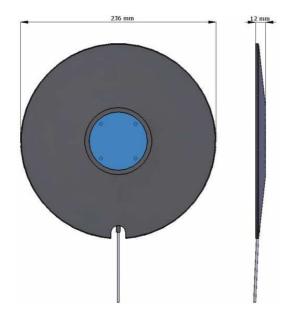


SV 38V (TEDS) Whole-Body Seat Accelerometer (ISO 8041)

SV 38V is a low cost triaxial Whole-Body seat accelerometer based on MEMS transducers. It is dedicated for Human Vibration measurements according to ISO 8041:2005 standard Accelerometer can be easily used with SV 106 six channel analyser.

Calibration can be performed using accelerometer sensitivity written in TEDS memory or vibration calibrator with dedicated adapter SA 38 (option). Accelerometer can be easily removed from the seat pad, installed on calibration adapter and then fixed in all three axis on a shaker.





SA 38 calibration adapter



Technical Specification

Performance:

Number of axis Sensitivity (± 5 %) Measurement range

Frequency response (by design guideline, ± 3 dB) Frequency response (factory tested, ± 3 dB)

Resonant frequency Electrical noise

Electrical:

Supply current Supply voltage Bias voltage Output impedance

Charge / discharge time constant (start-up time)

TEDŠ memory

Environmental Conditions:

Maximum vibration Temperature coefficient

Temperature Humidity

Physical:

Sensing element Cable Connector **Dimensions** Weight

Accessories:

SA 38 (option)

50 mV/(m/s2) at 15.915 Hz, HP1 0.01 ms⁻² RMS ÷ 50 ms⁻² PEAK

0.01 Hz ÷ 100 Hz 4 Hz ÷ 125 Hz

5 kHz (MEMS transducer)

< 25 µV RMS, Wd weighting < 60 µV RMS, Wk weighting

< 230 µV RMS, HP1 weighting

< 5,0 mA 5,2 V ÷ 16 V 2,5 V ± 0.05 V 51 Ohms 30 sec. typ

installed (power supply pin)

100 000 m/s² Peak shock survival for MEMS sensor

<+0.012 dB/°C from -10°C to +50°C

up to 90 % RH, non-condensed

MEMS

integrated 1.4 meters long

LEMO 5-pin plug (SV 106 compatible)

236 mm diameter; thickness from 3.6 mm to 12 mm 550 grams (including cable and rubber cushion)

Calibration adapter

Distributed by:



ISO 9001 **CERTIFIED**



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