

SV 84

Building Vibration Accelerometer



INSTRUMENTATION FOR SOUND & VIBRATION MEASUREMENTS

SV 84 is a **LOW-NOISE**, hermetically sealed **TRIAxIAL** piezoelectric accelerometer designed to monitor building and ground vibrations with SVAN 958A analyser.

A hermetically sealed glass connector protects the SV 84 from harmful dust and moisture enabling the **OUTDOOR** use without additional enclosures.

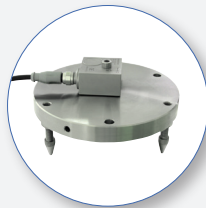
Signal ground is **ISOLATED** from the mounting surface and outer case to prevent ground loops.



Optional accessories to SV 84



SV 111
Vibration Field Calibrator



SA 207B
Building Vibration Kit



SC 282
Cable to SV 84 and SVAN 958A

SV 84 Technical Specifications

Performance

Number of Axes	3
Sensitivity ($\pm 10\%$)	100 mV/(m/s ²) ~ 1000 mV/g
Measurement Range	0.0005 m/s ² RMS \div 50 m/s ² Peak
Frequency Response (± 3 dB)	0.2 Hz \div 3 700 Hz
Resonant Frequency	16 kHz
Residual Noise (1 Hz, 24°C)	2.0 μ g RMS
Residual Noise (1 kHz, 24°C)	6.3 μ g RMS

Electrical

Supply Current (IEPE)	2 mA \div 10 mA
Supply Voltage (IEPE)	22 V \div 28 V
Bias Voltage (IEPE)	+10 VDC
Output Impedance (Nominal)	50 Ω
Charge / Discharge Time Constant (start-up time)	< 10 sec. typ.

Environmental Conditions

Maximum Vibration (shock survival)	50 000 m/s ² Peak
Thermal Sensitivity Coefficient	0.1 %/°C F.S.
Operating Temperature Range (recommended)	from -10 °C to +50 °C
Humidity / Enclosure	Not affected, hermetically sealed

Physical

Connector	M12 glass seal
Dimensions	41x42x23 mm (with connector)
Weight	275 grams
Mounting Thread	M6
Material Housing & Connector	Stainless steel

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