# **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 Sensitivity (± 10 %) Measurement Range Frequency Response (± 3 dB) Resonant Frequency Residual Noise (1 Hz, 24°C) Residual Noise (1 kHz, 24°C)

### Electrical

Supply Current (IEPE)
Supply Voltage (IEPE)
Bias Voltage (IEPE)
Output Impedance (Nominal)
Charge / Discharge Time Constant (start-up time)

## **Environmental Conditions**Maximum Vibration (shock survival)

Thermal Sensitivity Coefficient Operating Temperature Range (recommended) Humidity / Enclosure

#### Physical

Connector
Dimensions
Weight
Mounting Thread
Material Housing & Connector

3  $100 \text{ mV/(m/s}^2) \sim 1000 \text{ mV/g}$   $0.0005 \text{ m/s}^2 \text{ RMS} \div 50 \text{ m/s}^2 \text{ Peak}$   $0.2 \text{ Hz} \div 3700 \text{ Hz}$  16 kHz 2.0 µg RMS 6.3 µg RMS

2 mA  $\div$  10 mA 22 V  $\div$  28 V +10 VDC 50  $\Omega$ < 10 sec. typ.

50 000 m/s² Peak 0.1 %/°C F.S. from -10 °C to +50 °C Not affected, hermetically sealed

M12 glass seal 41x42x23 mm (with connector) 275 grams M6 Stainless steel

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