

SV 84

Building Vibration Accelerometer

The SV84 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 SV84 from harmful dust and moisture enabling the outdoor use without additional enclosures.

The signal ground is insulated from the mounting surface and outer case to prevent ground loops.



Technical Specifications

Performance:

Number of Axes	3
Sensitivity ($\pm 5\%$)	100 mV/(ms ⁻²) ~ 1000 mV/g
Measurement Range	0.0005 ms ⁻² RMS \div 50 ms ⁻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 ms ⁻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
Weight	275 grams
Mounting Thread	M6
Material Housing & Connector	Stainless steel

Accessories:

SA 207B	Mounting base for building and ground vibration (optional)
SC 281	Cable M12 to Amphenol (SV 212_x), 5 meters (optional)
SC 282	Cable M12 to LEMO 4-pin (SVAN 958A), 5 meters (optional)
SA 154	Calibration adapter (optional)

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.