

SV 80



General Purpose Vibration Accelerometer

The SV 80 is an industry standard IEPE accelerometer offered to SVAN 974. It is an ideal choice for walk-around vibrations measurement in the rugged environments of industrial machinery monitoring, such as pumps, motors or fans. The accelerometer is mounted on a vibrating surfaces with the mounting magnet.

The design of SV 80 features the low electronic noise and wide temperature operating range.



Technical Specifications

Performance

Number of Axes	1
Sensitivity ($\pm 5\%$)	10 mV/(ms ⁻²) ~ 100 mV/g
Measurement Range	0.01 ms ⁻² RMS ÷ 500 ms ⁻²
Frequency Response (by design guideline, ± 3 dB) Resonant Frequency	Peak 0.5 Hz ÷ 14 000 Hz 25 kHz
Residual Noise (1 Hz, 24°C)	30 μ g RMS
Residual Noise (1 Hz to 25 kHz, 24°C)	300 μ g RMS

Electrical:

Supply Current (IEPE)	2 mA ÷ 10 mA
Supply Voltage (IEPE)	22 V ÷ 28 V
Bias Voltage (IEPE)	+12 VDC
Output Impedance (Nominal)	50 Ω
Charge / Discharge Time Constant (start-up time)	< 1 sec. typ.

Environmental Conditions:

Maximum Vibration (shock survival)	50 000 ms ⁻² Peak 0.07
Thermal Sensitivity Coefficient	%/°C F.S.
Operating Temperature Range	from -10 °C to +50 °C
(recommended) Humidity / Enclosure	IP67, epoxy sealed

Physical:

Connector	TNC socket, top radially
Weight	mounted 40 grams
Mounting Thread	10-32 UNF 2B

Accessories:

Mounting Stud	10-32 to M5 (included)
SA 27/10-32	Mounting magnet base (optional)
SC 27	Coil cable TNC plug – TNC plug, 2 meters (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.



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