SV85

General Purpose Vibration Accelerometer



INSTRUMENTATION FOR SOUND & VIBRATION MEASUREMENTS

The SV 85 is a IEPE based TRIAXIAL ACCELEROMETER designed for general purpose vibration measurements with the SVAN 958A four-channel analyser.

The **HERMETIC SEALED** tri-axial industrial piezoelectric accelerometer is suitable to monitor the vibration in harsh industrial environment.

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



Optional accessories to SV 85



SV 111 Vibration Field Calibrator



Hand-heldVibration Calibrator



SA 154 Calibration Adapter to SV 85



SC 282 Cable to SV 85 and SVAN 958A

SV 85 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 $10 \text{ mV/(m/s}^2) \sim 100 \text{ mV/g}$ $0.005 \text{ m/s}^2 \text{ RMS} \div 500 \text{ m/s}^2 \text{ Peak}$ 0.5 Hz ÷ 13 000 Hz (Z axis); 0.5 Hz ÷ 10 000 Hz (X, Y axis) 40 kHz 300 μg RMS 3000 µg RMS

 $2 \text{ mA} \div 10 \text{ mA}$ 22 V ÷ 28 V +12 +/- 2 VDC 50 Ω < 1 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 28.5x27x16.5 mm (with connector) 84 grams М6 Stainless steel

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