

The SA-4 Low Power Acoustic Pressure Sensor is a perfect sensor for complimenting the monitoring for seismic systems. Especially designed for Volcanic Monitoring, the SA-4 monitors low frequency sound waves and can be used for many other seismic applications.



It is a perfect companion with eentec's SP or EP line of seismometers and the R-1 rotational seismometer.

The SA-4 Acoustic Pressure Sensor monitors the sound band flat from 1Hz to 700Hz. It comes standard with four inlets. The unit is fully calibrated, with a dynamic range of 125dB, a sensitivity of 4mV/Pa, and a full scale of +/-100Pa. The full-scale output is +/-5V. It operates off of 12VDC, normally supplied by the recorder or telemetry station.

The SA-4 is very rugged. Housed in a PVC enclosure it is waterproof, corrosion proof, and operates over a wide temperature range.

It is easy to install and requires no specialized procedures. The unit comes standard with a 3m cable with flying leads to connect to the recorders sensor input.

Options available are a higher frequency response to 10,000Hz , or lower frequencies to 4 seconds, a higher full scale output to +/-10V, and additional input ports.

SA-4 Specifications

Type	Pressure prepolarized condenser microphone
Sensitivity	50mV/Pa
Frequency	1Hz to 700Hz +/-3db. (lower and higher frequencies available)
Self noise	50 microP RMS
Dynamic range	125dB
Output Impedance	50 ohms
Full scale output	+5V (optional +/-10V)
Clip level	+/- 100Pa
Input ports	4 standard (others optional)
Current	35ma
Operating voltage	+12V (nominal)
Temperature range	-30 deg C to + 70C
Humidity	100% non condensing
Case size	Height 12 inches (with cord seal), bottom diameter 7.5 inches OD (with input port).
Case type	PVC, NEMA 4x,
Environmental	Waterproof, dustproof
Weight	4lbs
Options	Only above specifications options available

Specifications subject to change without notice

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