eentec

seismic force-balanced accelerometer

EA-130

The ***EA-130*** occupies the medium range of the Force Balanced Accelerometer line. It offers low noise, high dynamic range, in a frequency band of 100s to 120 Hz. It is perfectly suited for most strong motion monitoring applications. The sensor elements are housed in sealed aluminum case. They are extremely rugged, and designed for long-term deployment in field environments. Options include a variety of full-scale "g" levels and other frequency bands.

- **114x89x55 mm compact housing**
- **Lightweight (0.5 kg)**
- **3-component force-balanced**
- **3 g clip level**
- **Broadband 100s-120Hz flat response**
- **Stable and linear**
- **Low noise**
- **Extremely rugged**

The sensor has low power consumption, operates over a wide temperature range; it is waterproof up to 1m, and stays operational at any installation tilt. Weatherized connectors are available for IP68 compliance. Also base plates for internal and external mounting, leveling legs and level bubble are on special request.

SPECIFICATIONS	***EA-130***
Operating principle	Electromechanical force-balanced
Output signals	Triaxial acceleration flat response
Output swing:	±20 V differential or ±10 V single ended
Dynamic Range	130 dB
Self Noise	130 ng/√Hz, @ 10 Hz
Passband	Standard: 0.1 – 120 Hz; Optional: 0.01 – 120 Hz
Clip level	±3 g
Generator constant	Standard: 5 V/g; Optional: 1-20 V/g
Calibration controls	Enable and input lines on sensor connector
Maximum installation tilt	ANY
Mechanical resonances	>500Hz
Environmental	Waterproof, submersible (1m) with IP68 connector
Temperature range	Standard: - 40 to + 55 °C
Housing material	Aluminum
Case dimensions	114x89x55 mm
Weight	~0.5 kg
Power	10 – 16 Vdc; (Nominal 12Vdc); 35mA
Connector	16-pin IDC for internal mounting or 14-pin MIL-spec for IP68 use

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