



The EpiSensor ES-T: A Flexible, Versatile Value

Kinemetrics announces its latest line of earthquake sensors – EpiSensor force balance accelerometers. Model FBA ES-T is a triaxial surface package useful for many types of earthquake recording applications. The unit consists of three EpiSensor force balance accelerometer modules mounted orthogonally in one small convenient package. With fullscale recording ranges of \pm 0.25 to \pm 4g (user selectable) the EpiSensor provides on-scale recording of earthquake motions even at nearfault locations and in a wide variety of structure types.

The significantly improved bandwidth of DC to 200 Hz allows engineers and scientists to study motions at higher frequencies while maintaining the very important DC response that allows simple field calibration and reduces post-processing confusion.

Output circuitry is also significantly enhanced. Several types of outputs can be field-selected by the user: \pm 2.5V single-ended output for use with traditional Kinemetrics earthquake recording instruments: \pm 10V single-ended or \pm 20V differential output for use with Kinemetrics digital recorders and other 24-bit digital recorders currently on the market.

EpiSensor force balance accelerometers are also available in uniaxial (the FBA ES-U) and borehole (the FBA ES-SB shallow and FBA ES-DH deep) packages.

EpiSensor ES-T

Force Balance Accelerometer

FEATURES

- · Low noise
- Extended bandwidth DC to 200Hz
- · User-selectable full-scale range
- · Calibration coil (standard)
- Single-end or differential output (user selectable)
- Double-stage transient protection

SPECIFICATIONS

Dynamic range: 155 dB+

Bandwidth: DC to 200Hz

Calibration coil: Standard

Full-scale range: User selectable at \pm 0.25g, \pm 0.5g, \pm 1g, \pm 2g

or ± 4g

Outputs: User selectable at:

± 2.5V single-ended ± 10V single-ended ± 5V differential ± 20V differential

Zero adjust: Three user-friendly access holes for simple,

safe, efficient adjustment

Linearity:< 1000 μg/g2</td>Hysteresis:< 0.1% of full scale</td>Cross-axis sensitivity:< 1% (including</td>

Zero point thermal drift: < 500 μg/°C (1g sensor)

ESD, RF, EMI protection: Double stage transient protection with

misalignment)

gas arrester elements
Power consumption: 12mA from +/- 12V (Standard Amp)

35mA from +/- 12V (Low Noise Amp)
Single supply option available

Physical size: 13.3 cm diameter (cylinder), 6.2 cm high Mounting: Single bolt mounting, three adjustable

leveling feet and bubble level
Single military-style metal connector

Single military-style metal connector

-20° to 70°C (0° to 160°F) Watertight enclosure

Operating Temperature:

Connection:

Housing: