Broadband Sensors

PASSCAL Broadband Sensors:

- Streckeisen STS-2
- Guralp CMG-3T
- Nanometrics Trillium 240
- Nanometrics Trillium 120

Features:

Broadband sensors are three-component seismometers capable of sensing ground motions over a wide range of frequencies, hence the term ‘broadband’. Modern, feedback electronics has allowed 3-component, broadband sensors to be housed in a single case, light enough to be used in ‘portable’ applications. These sensors are most often used in passive experiments, recording weak motions from regional and teleseismic earthquakes, as well as ambient noise.

The flat-to-velocity portion of the bandwidth is generally from about 0.01 Hz to > 25Hz. With sufficient signal, however, 120-sec and 240-sec velocity transducers can resolve signals with periods much longer than the corners.

Further Reading:

Broadband vault construction

Related categories: Broadband Sensors

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