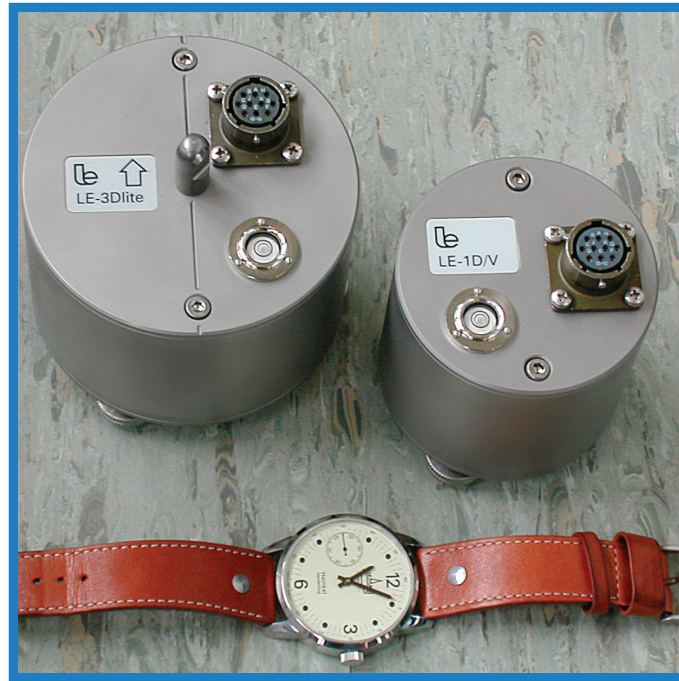


Reliable measurements.



LE-3Dlite MkII

**Compact, high performance
three-component 1 Hz seismometer
(also available as 1D/V MkII)**

Quality exists
when the price is long forgotten.

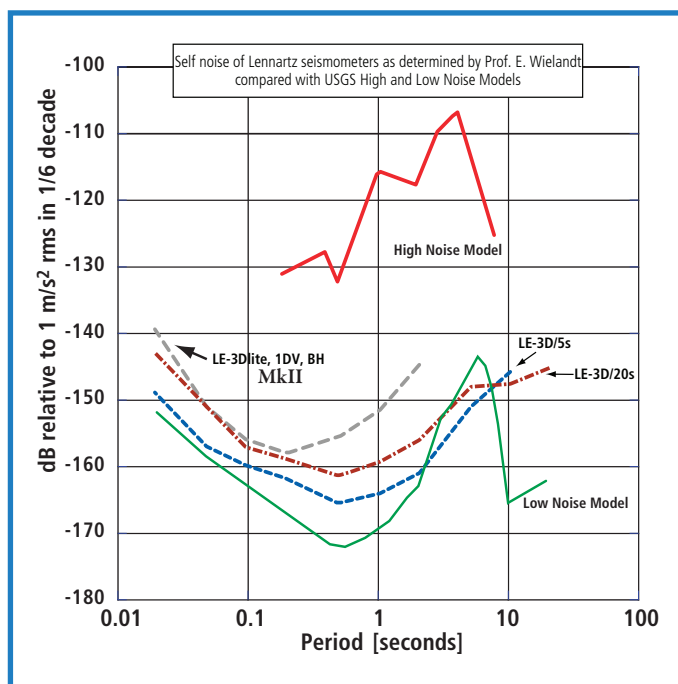
lennartz
electronic

Lennartz seismometers have a 20+ years track record all over the world, and it was the **LE-3D** »classic« that started it all. Now in its third evolutionary incarnation, the **LE-3Dlite MkII** offers the time-proven workhorse reliability of the original **LE-3D** paired with improved handling features, water tightness, and compatibility across the entire Lennartz sensor product line.

Ideally suited for mobile applications of any kind, **LE-3Dlite MkII** is also the sensor of choice in many observatory stations, and has replaced clumsy mechanical sensors. At a fraction of the bulk and weight, and with vastly superior handling properties, there really isn't much of a competition between mechanical and electronic. Here's a comparison between **LE-1D/V** and a well-known classic mechanical 1D design:



But using a modern electronically enhanced seismometer has more advantages: Since each sensor is individually adjusted and calibrated to less than 1% deviation from the theoretical transfer function and transduction factor, sensors are perfectly interchangeable, and there is no need to keep track of which sensor was connected to which station during which time span. Purely mechanical sensors have much greater variance in their parameters, both between individual instruments and over time.



Lennartz sensors are extremely stable in the long term. An affordable recalibration service is offered for those users needing written proof of the fact.

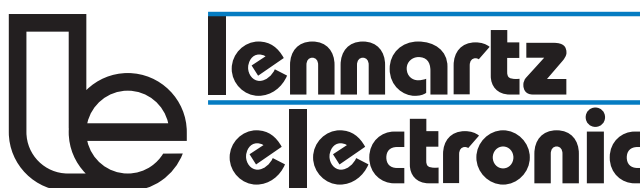
Also, contrary to most mechanical sensors, Lennartz sensors do not require any kind of transportation locking, nor do they require excessive settling time. A useful signal

is present just seconds after power-up.

Poles and zeroes of the transfer function are supplied with the instrument, making deconvolution easy. Given a reasonable signal-to-noise ratio, **LE-3Dlite MkII** data can be deconvolved down to 20 seconds and beyond.

Technical data

Power supply:	10...16 V DC unstabilized
Typical power consumption @ 12 V DC:	8 mA (3D), 3 mA (1D)
Transduction factor:	400V/m/s, precisely adjusted
Damping:	.707 critical, precisely adjusted
Dimensions:	95 mm diameter, 65 mm height (1D: 85 mm dia./55 mm height)
Weight:	1.6 kg (1D: 1.2 kg)
Temperature range:	-15...+60 °C
RMS noise @ 1 Hz:	< 3 nm/s
Dynamic range:	136 dB



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