

Reliable measurements.



LE-3D/5s MkIII

Compact, high performance
three-component 5 seconds (0.2 Hz)
seismometer

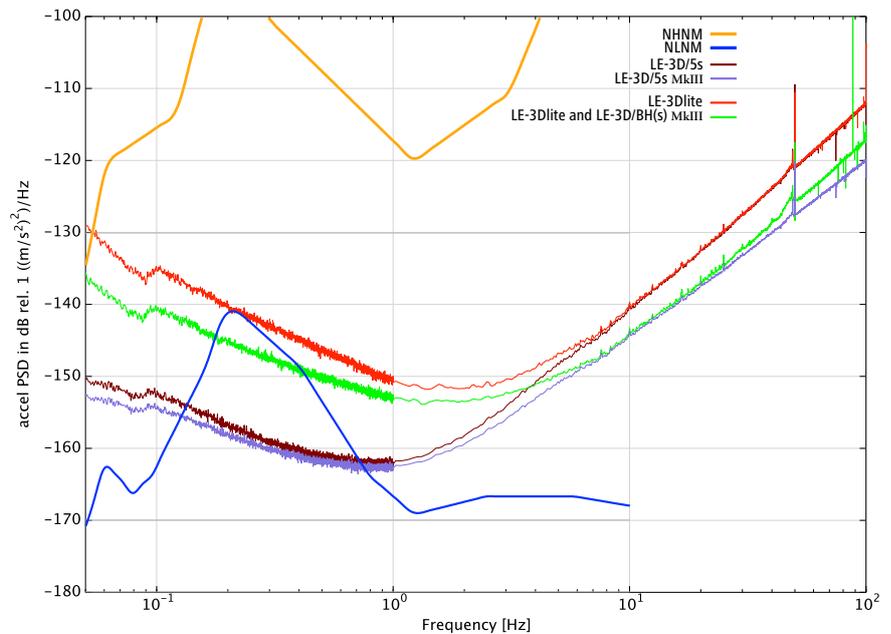
Quality exists
when the price is long forgotten.

le **lennartz**
electronic

Lennartz seismometers have a 30+ years track record all over the world, and it was the **LE-3D** »classic« that started it all. A few years later, applying the same patented technique, Lennartz succeeded in creating an intermediate-period version, extending the flat part of the transfer function down to 0.2 Hz (5 seconds). Ever since, **LE-3D/5s** has been the sensor of choice in particular for microzonation (H/V, Nakamura method) applications. Mechanical robustness, fieldworthiness and unparalleled ease of use have made **LE-3D/5s** the »go-to« sensor for many rapid deployment tasks. Following the success of **LE-3Dlite MkIII**, its larger sibling **LE-3D/5s** was also promoted to **MkIII** (although there never was an **MkII** version for 5s). The result: noise performance and power consumption have been further improved.

Each sensor is individually adjusted and calibrated to less than 1% deviation from the theoretical transfer function and transduction factor, so sensors are perfectly interchangeable without the need to keep track of which sensor was connected to which station at which time. Mechanical sensors have much greater parameter variance, both between individual instruments and over time.

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



Noise graphic courtesy of Dr. Rudolf Widmer-Schnidrig, BFO (Black Forest Observatory)

Also, contrary to most mechanical and broad-band sensors, Lennartz sensors do not require any kind of transportation locking, nor do they require excessive settling time. A useful signal is present just a few 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-3D/5s MkIII** data can be deconvolved down to 20 seconds and beyond.

Technical data LE-3D/5s MkIII

Power supply:	10...16 V DC unstabilized
Typical power consumption @ 12 V DC:	7 mA
Transduction factor:	±800V/m/s differential, precisely adjusted
Damping:	.707 critical, precisely adjusted
Dimensions*:	195 mm diameter, 129 mm height
Weight:	6 kg
Temperature range:	-15...+60 °C
RMS noise @ 1 Hz:	< 1 nm/s
Dynamic range:	> 140 dB

*cylindrical part only, not including adjustable feet, connector, and handle



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