

Ultra-compact, high-gain 1-Hz seismic sensor

MTSS-1001

This smallest available 1-Hz seismic sensor is ideally suited for such areas as structural analysis, geologic hazards, vibration isolation and other field seismic measurements and has the following specific features:



- High conversion gain – very low signals can be directly recorded without pre-amplification;
- Very wide operating frequency range;
- No springs to be broken;
- Operation at any tilts;
- Seismic sensors are available in standard geophone cases (PC-21 Land Space) and original waterproof aluminum marsh case.

Technical Characteristics.

| | |
|----------------------------------|--|
| Conversion factor | 300 V/m/sec (optional 100 V/m/sec) |
| Frequency range | 1 Hz – 500 Hz |
| Output | Velocity proportional, ± 7.0 V |
| Self-noise over pass-band | 100 nm/sec |
| Dynamic range | > 110 dB |
| Non-linearity | < 1% of the full-scale |
| Installation tilts | Operates in any orientation. |
| Temperature range | -15° - +65° C - standard -55° - + 65 °C – low-temperature version |

Mechanicals (waterproof case).

| | |
|--------------------|-------|
| Diameter | 40 mm |
| Case Height | 90 mm |
| Weight | 180 g |

Specifications subject to change without notice

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Ultra-compact, three-component, high-gain 1-Hz seismometer. MTSS-1003

The MTSS-1003 seismometer contains three orthohonally oriented MTSS-1001-type seismic sensors. The seismometer is designed for seismological studies where the combination of low noise, wide frequency range and high gain is required. The MTSS-1003 is probably the smallest size 3-axis 1-Hz seismometer available over world.



- High conversion gain – small signals can be recorded directly without pre-amplification;
- Very wide operating frequency range;
- No springs to be broken;
- Easy installation procedure, accurate leveling is not required.
- IP-67 rated environmental protection

Technical Characteristics.

| | |
|----------------------------------|--|
| Conversion factor | 300 V/m/sec (optional 100 V/m/sec) |
| Frequency range | 1 Hz – 500 Hz |
| Output | Velocity proportional, ± 7.0 V |
| Self-noise over pass-band | 100 nm/sec |
| Dynamic range | > 110 dB |
| Non-linearity | < 1% of the full-scale |
| Installation tilts | Up to 15°, Operated in any orientation version is available |
| Temperature range | -15° - +65° C - standard -55° - + 65 °C – low-temperature version |

Mechanicals.

| | |
|--------------------|-------|
| Diameter | 70 mm |
| Case Height | 80 mm |
| Weight | 250 g |

Specifications subject to change without notice

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