

MTSS-1040 SENSOR

High Precision | Low Frequency | Seismic Sensor



The MTSS-1040 is a low frequency seismic sensor that is based on our proprietary MET technology. It is a small and highly sensitive device demonstrating a wide operation frequency range. Its applications include infrastructure and vibration monitoring, seismic sensing, as well as others.

PARAMETER

Operational Principle	MET Transducer with feedback coil
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FREQUENCY RESPONSE

Bandwidth	1-300 Hz, -3 dB level, shaped electronically
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Low-Cutoff Tolerance	5 %
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High Cutoff Filter	Second Order Butterworth
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Spurious	> 400 Hz
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SENSITIVITY

Standard	300V/m/s
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Optional	60-300V/m/s range
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DISTORTIONS

With .7 in/s p.p. coil to case velocity	< .05%
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Measurement Frequency	12 Hz
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Maximum Tilt Angle for specified distortions	10°
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Output Limits	± 6V
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Max. Linearity Error	< .1 % of full scale at standard sensitivity
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SELF NOISE

Equivalent Input	10 nm/sec/√Hz at 10 Hz 3 nm/sec/√Hz at 50 Hz
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POWER

Supply Voltage & Current	12V & 7.5 mA
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PHYSICAL

Diameter	4 cm
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Height & Weight	11.6 cm & 250 g
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Temperature Range in Celsius	-55°C to +85°C
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TECHNICAL SPECIFICATIONS