

## Molecular-electronic low-frequency seismic sensor, model MTSS-2001WB (MTSS-2003WB)

The MTSS-2001WB sensor is designed primarily for structural engineering seismic monitoring. However it also can be used in a variety of applications for measuring low-frequency response at low noise. The high-gain, conditioned output signal does not require any external electronics to connect the instrument to digitizer. MTSS-2003WB is tri-component package of three orthogonally oriented identical sensors. Both MTSS-2001WB and MTSS-2003WB instruments can be fixed on the testing structure in any orientation without loss in the performance. A combination of very small size and extremely low power consumption is unique for low-frequency sensors of such accuracy level.

### Technical Characteristics

<b>Conversion factor</b>	300 V/m/sec
<b>Frequency range</b>	0.2 – 20 Hz
<b>Output</b>	Velocity proportional, $\pm 8.5$ V
<b>Self-noise over frequency range</b>	50 nm/sec
<b>Dynamic range</b>	> 110 dB
<b>Nonlinearity</b>	< 1% of Full scale
<b>Installation tilt</b>	Operates in any orientation
<b>Temperature range</b>	-15° - + 65 °C - standard -55° - + 55 °C – low-temperature version.
<b>Power supply</b>	12 V; 2 mA – MTSS-2001WB 12 V; 5.5 mA – MTSS-2003WB

### Mechanicals

#### 2001WB

<b>Diameter</b>	40 mm
<b>Height</b>	80 mm
<b>Weight</b>	180 g

#### 2003WB

<b>Size</b>	100x100x60 mm
<b>Weight</b>	380 g

*Specifications subject to change without notice*

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