

<b>Vibration Meter</b>	
Channels	<ul style="list-style-type: none"> <li>• 1 (Single-channel)</li> </ul>
Parameters	<ul style="list-style-type: none"> <li>• Real time measurement in                             <ul style="list-style-type: none"> <li>» Acceleration: m/s<sup>2</sup>, g, in/s<sup>2</sup>, dB</li> <li>» Velocity: m/s, in/s, dB</li> <li>» Displacement: m, in, dB</li> </ul> </li> </ul>
VibMeter	<ul style="list-style-type: none"> <li>• Broadband level                             <ul style="list-style-type: none"> <li>» Frequency range: 0.8 Hz - 2.5 kHz</li> </ul> </li> <li>• Spectral                             <ul style="list-style-type: none"> <li>» 1/1 octave band display: 1 Hz - 2.0 kHz sub ranges 1 Hz - 500 Hz or 4 Hz - 2 kHz</li> <li>» 1/3 octave band display: 0.8 Hz - 2.5 kHz sub ranges 0.8 Hz - 1.0 kHz, 2.5 Hz - 2.5 kHz</li> <li>» Broadband level measured with bandwidth (-3dB): 0.7 Hz – 23.6 kHz</li> </ul> </li> <li>• Display according to DIN 45669-1:2010                             <ul style="list-style-type: none"> <li>» Unweighted velocity v(t)</li> <li>» Maximum absolute velocity  v <sub>max</sub></li> <li>» Averaging duration T<sub>m</sub></li> <li>» Measurement duration T<sub>M</sub></li> </ul> </li> </ul>
Filter	<ul style="list-style-type: none"> <li>• Flat (no filter) Bandwidth (-3dB): 0.7 Hz – 23.6 kHz</li> <li>• 10 - 1000 Hz according to ISO 2954 with decay rate = 18 dB / octave</li> <li>• 1 - 80 Hz, 1 - 315 Hz acc. to DIN 45669-1:2010 with decay rate = 12 dB / octave</li> </ul>
FFT	<ul style="list-style-type: none"> <li>• Frequency range: 1 Hz - 1.69 kHz</li> <li>• Optional: High-resolution Zoom-FFT with selectable frequency ranges and resolution up to 0.4 Hz in the range of 1 Hz to 20 kHz</li> </ul>

1/12 Oct	<ul style="list-style-type: none"> <li>• Optional: Frequency range: 0.73 Hz - 1.36 kHz</li> </ul>
Maximum Input Level	<ul style="list-style-type: none"> <li>• 353 m/s<sup>2</sup>, 36 g @ 20 mV/(m/s<sup>2</sup>) with ICP Adapter ASD</li> </ul>
Residual Noise (typical) with ICP Adapter ASD	<ul style="list-style-type: none"> <li>• 17 µV @ 0.7 Hz ... 23.0 kHz</li> <li>• 14 µV @ 1 Hz ... 315 Hz</li> <li>• 14 µV @ 1 Hz ... 80 Hz</li> </ul>
Reference-measurement range	<ul style="list-style-type: none"> <li>• Mid</li> </ul>

<b>Input / Output Interfaces</b>	
Audio Inputs	<ul style="list-style-type: none"> <li>• XLR balanced with input impedance = 200 kOhm, phantom power: +48 V switchable, automated sensor detection for NTi Audio's ASD measurement microphones and pre-amplifier MA220</li> <li>• RCA unbalanced with input impedance &gt;30 kOhm</li> <li>• Built-in condenser microphone for polarity testing, delay measurements and voice note recording</li> </ul>
Audio Outputs	<ul style="list-style-type: none"> <li>• Built-in speaker</li> <li>• Headphone connector, 3.5 mm Minijack; mono monitor wired to both channels of stereo jack</li> </ul>
USB Interface	<ul style="list-style-type: none"> <li>• USB mini connector for data transfer to PC, XL2 Projector PRO and/or charging of Li-Po battery</li> </ul>
Digital I/O	<ul style="list-style-type: none"> <li>• Connection interface to accessories                             <ul style="list-style-type: none"> <li>• XL2 Input Keypad</li> <li>• Limit Light</li> <li>• Stack Light</li> <li>• Digital I/O Adapter PCB</li> </ul> </li> </ul>

TOSLink	24 bit linear PCM audio signal output (prepared for later firmware extension)
Memory	<p>SD Card included (8 GByte), removable, storing measurement data in ASCII format, screen shots, voice notes and wav-files</p> <p>Data logging every second offers following noise monitoring periods:</p> <ul style="list-style-type: none"> <li>• Logging default noise levels: &gt; 2 years</li> <li>• Additional logging of 1/3 octave data: &gt; 6 month</li> <li>• Additional             <ul style="list-style-type: none"> <li>» compressed audio recording: &gt; 1 week</li> <li>» linear audio recording: &gt; 15 hours</li> </ul> </li> </ul> <p>Optional 32 GB SD Cards are available for longer monitoring requirements.</p>
Power Supply	<ul style="list-style-type: none"> <li>• Rechargeable Li-Po battery included             <ul style="list-style-type: none"> <li>» Type 3.7 V / 2260 mAh</li> <li>» Typical battery lifetime &gt; 4 hours</li> <li>» Range: 3.3 - 4.5 VDC</li> <li>» Volume energy density = 339 Wh/l</li> </ul> </li> <li>• Dry cell batteries type AA, 4 x 1.5 V             <ul style="list-style-type: none"> <li>» Typical battery lifetime &gt; 4 hours</li> <li>» Range: 3.7 - 6.0 VDC</li> </ul> </li> <li>• Linear external power supply 9VDC             <ul style="list-style-type: none"> <li>» Range: 7.5 - 20.0 VDC @ minimum 6 Watt</li> <li>» Charges Li-Po battery during operation</li> </ul> </li> <li>• USB-Power Supply             <ul style="list-style-type: none"> <li>» for short term operation &lt; 1 day</li> <li>» charging power is equal or less than power consumption</li> </ul> </li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>• External battery pack             <ul style="list-style-type: none"> <li>» 22 Ah battery pack: 4 days</li> <li>» 44 Ah battery pack: 8 days</li> </ul> </li> </ul>

General	
Clock	<ul style="list-style-type: none"> <li>• Default             <ul style="list-style-type: none"> <li>» Real-time clock with lithium backup battery</li> <li>» Drift &lt; 1.7 seconds per 24 hours</li> </ul> </li> <li>• Special XL2 edition, NTi Audio # 600 000 356             <ul style="list-style-type: none"> <li>» VCXTO clock</li> <li>» Drift &lt; 0.04 seconds per 24 hours</li> </ul> </li> </ul>
Mechanics	<ul style="list-style-type: none"> <li>• Tripod or microphone stand mount 1/4"</li> <li>• Wire stand mounted on rear side</li> <li>• Display: 160 x 160 pixels grey scale with LED back light</li> <li>• Dimensions (L x W x H)             <ul style="list-style-type: none"> <li>» 180 mm x 90 mm x 45 mm</li> <li>» 7.1" x 3.5" x 1.8"</li> </ul> </li> <li>• Weight: 480 g (1 lb) including built-in Li-Po battery</li> </ul>
Temperature	-10 °C to +50 °C (14° to 122°F)
Humidity	5% to 90% RH, non-condensing
Susceptibility to radio frequencies	Classification Group X
Electromagnetic Compatibility	CE compliant: EN 61326-1 Class B, EN 55011 class B EN 61000-4-2 to -6 & -11
Protection Rating	IP51
ATEX	<ul style="list-style-type: none"> <li>• For applications in explosive atmospheres within zone 2 in accordance with IEC 60079</li> <li>• Conforms to 94/9/EC</li> </ul>