## Specifications

### Vibration Meter

<table>
<thead>
<tr>
<th>Channels</th>
<th>• 1 (Single-channel)</th>
</tr>
</thead>
</table>
| Parameters | • Real time measurement in  
  » Acceleration: m/s², g, in/s², dB  
  » Velocity: m/s, in/s, dB  
  » Displacement: m, in, dB |
| VibMeter | • Broadband level  
  » Frequency range: 0.8 Hz - 2.5 kHz  
  • Spectral  
  » 1/1 octave band display: 1 Hz - 2.0 kHz  
    sub ranges 1 Hz - 500 Hz or 4 Hz - 2 kHz  
  » 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  
  » Broadband level measured with bandwidth (-3dB): 0.7 Hz – 23.6 kHz  
  • Display according to DIN 45669-1:2010  
  » Unweighted velocity v(t)  
  » Maximum absolute velocity |v|max  
  » Averaging duration T_m  
  » Measurement duration T_M |
| Filter | • Flat (no filter)  
  Bandwidth (-3dB): 0.7 Hz – 23.6 kHz  
  • 10 - 1000 Hz according to ISO 2954 with decay rate = 18 dB / octave  
  • 1 - 80 Hz, 1 - 315 Hz acc. to DIN 45669-1:2010 with decay rate = 12 dB / octave |
| FFT | • Frequency range: 1 Hz - 1.69 kHz  
  • 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 |

### 1/12 Oct

| Maximum Input Level | • Optional: Frequency range: 0.73 Hz - 1.36 kHz |
| Residual Noise (typical) with ICP Adapter ASD | • 353 m/s², 36 g @ 20 mV/(m/s²) with ICP Adapter ASD |
| Reference-measurement range | • Mid |
| Residual Noise (typical) with ICP Adapter ASD | • 17 µV @ 0.7 Hz ... 23.0 kHz  
  • 14 µV @ 1 Hz ... 315 Hz  
  • 14 µV @ 1 Hz ... 80 Hz |

### Maximum Input Level

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### Residual Noise (typical) with ICP Adapter ASD

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  • 14 µV @ 1 Hz ... 315 Hz  
  • 14 µV @ 1 Hz ... 80 Hz |

### Reference-measurement range

| Reference-measurement range | • Mid |
### Specifications

#### Input / Output Interfaces

| Audio Inputs  | • XLR balanced  
|              | » Input impedance = 200 kOhm  
|              | » Phantom power: +48 VDC switchable with maximum 10 mA supply current in accordance with IEC 61938  
|              | » Automated sensor detection for NTi Audio’s ASD measurement microphones and pre-amplifier MA220  
|              | • RCA unbalanced with input impedance >30 kOhm  
|              | • Built-in condenser microphone for polarity testing, delay measurements and voice note recording  
| Audio Outputs | • Built-in speaker  
|              | • Headphone connector, 3.5 mm Minijack; mono monitor wired to both channels of stereo jack  
| USB Interface | USB mini connector for data transfer to PC, XL2 Projector PRO and/or charging of Li-Po battery  
| Digital I/O  | Connection interface to accessories  
|              | • XL2 Input Keypad  
|              | • Limit Light  
|              | • Stack Light  
|              | • Digital I/O Adapter PCB  
| TOSLink      | 24 bit linear PCM audio signal output (prepared for later firmware extension)  

#### Memory

- SD Card included (8 GByte), removable, storing measurement data in ASCII format, screen shots, voice notes and wav-files
- Data logging every second offers following noise monitoring periods:
  - Logging default noise levels: > 2 years
  - Additional logging of 1/3 octave data: > 6 month
  - Additional compressed audio recording: > 1 week
  - linear audio recording: > 15 hours
- Optional 32 GB SD Cards are available for longer monitoring requirements.

#### Power Supply

- Rechargeable Li-Po battery included
  - Type 3.7 V / 2260 mAh  
  - Typical battery lifetime > 4 hours  
  - Range: 3.3 - 4.5 VDC  
  - Volume energy density = 339 Wh/l  
- Dry cell batteries type AA, 4 x 1.5 V
  - Typical battery lifetime > 4 hours
  - Range: 3.7 - 6.0 VDC
- Linear external power supply 9 VDC
  - Range: 7.5 - 20.0 VDC @ minimum 6 Watt
  - Charges Li-Po battery during operation
- USB-Power Supply
  - for short term operation < 1 day
  - charging power is equal or less than power consumption
- External battery pack
  - 22 Ah battery pack: 4 days
  - 44 Ah battery pack: 8 days

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| Power Supply  | External battery pack  
|              | 22 Ah battery pack: 4 days  
|              | 44 Ah battery pack: 8 days  

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262
## Specifications

### General

| Clock | • Default  
|       | » Real-time clock with lithium backup battery  
|       | » Drift < 1.7 seconds per 24 hours  
|       | • Special XL2 edition, NTi Audio # 600 000 356  
|       | » VCXTO clock  
|       | » Drift < 0.04 seconds per 24 hours  
| Mechanics | • Tripod or microphone stand mount 1/4”  
|          | • Wire stand mounted on rear side  
|          | • Display: 160 x 160 pixels grey scale with LED backlight  
|          | • Dimensions (L x W x H)  
|          | » 180 mm x 90 mm x 45 mm  
|          | » 7.1” x 3.5” x 1.8”  
|          | • Weight: 480 g (1 lb) including built-in Li-Po battery  
| 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 | • For applications in explosive atmospheres within zone 2 in accordance with IEC 60079  
|      | • Conforms to 2014/34/EU