

Vibration Meter	
Channels	• 1 (Single-channel)
Parameters	• Real time measurement in » Acceleration: m/s², g, in/s², dB » Velocity: m/s, in/s, dB » Displacement: m, in, dB
VibMeter	• Frequency range: 0.8 Hz - 2.5 kHz • RTA: 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), 1 - 80 Hz, 1 - 315 Hz • In accordance with DIN 45669-1:2010 • Bandwidth (-3dB): 0.7 Hz – 23.6 kHz • Decay rate = 40 dB / decade
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	• Optional: Frequency range: 0.73 Hz - 1.36 kHz
Maximum Input Level	• 353 m/s², 36 g @ 20 mV/(m/s²) with ICP Adapter ASD
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

Reference-measurement range	• Mid
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Input / Output Interfaces	
Audio Inputs	• 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 • 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

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
Calibration	• Recommended calibration interval: one year • Microphone calibration with external calibrator supported • Optional calibration certificate for new instruments available
Mechanics	• Tripod or microphone stand mount 1/4" • Wire stand mounted on rear side • Display: 160 x 160 pixels grey scale with LED back light • 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 94/9/EC