

# Technical Data Minilyzer ML1

## Measurements

Level-RMS, Level-Relative, THD+N, k2...k5, vu+PPM, Frequency, Polarity, Signal Balance Error, Frequency Sweep, Time Sweep, 1/3<sup>rd</sup> Octave Spectrum, Scope, AFILS measurements supported (with MiniLINK)

---

<b>Level</b>	Units: dBU, dBV, $V_{RMS}$	Accuracy: $\pm 0.5\%$ @ 1 kHz
	Flatness: $\pm 0.1$ dB	Bandwidth: 20 Hz to 20 kHz
	Resolution: 3 digits (dB-scale) or 4 digits (V-scale)	

---

<b>Frequency</b>	Range: 10 Hz to 20 kHz
	Resolution: 4 digits
	Accuracy: $< \pm 0.1\%$

---

<b>THD+N</b>	including 2 <sup>nd</sup> to 5 <sup>th</sup> harmonics analysis (ML1 only)
Meas. Bandwidth:	10 Hz to 20 kHz
Resolution:	3 digits (dB-scale) or 4 digits (%-scale)
Residual THD+N:	balanced $< -85$ dB @ $-10$ dBU to $+20$ dBU
	unbalanced $< -74$ dB @ $0$ dBU to $+14$ dBU

---

## vu & PPM (vu-Indicator and Peak Program Meter)

according to IEC 60268 and DIN 45406.  
PPM Type I, IIa and Nordic. Both meters with adjustable reference and with analog & numerical peak-hold readout.

---

<b>Polarity Test</b>	Positive/Negative detection through internal microphone or XLR/RCA connector. Checks polarity of midrange-speakers, woofers and cables. MR1 test signal
----------------------	---

---

<b>Signal Balance Error</b>	Indication range 0.0 % to 100 % Deviation from perfect balance in % or *1
-----------------------------	--

---

<b>Sweep</b>	Level vs. Frequency or Level and THD+N and Frequency vs. Time
--------------	--

---

<b>1/3<sup>rd</sup> Octave</b>	Spectrum acc. IEC 1260, class II and ANSI S1.11-1976, class II from 50 Hz to 20 kHz, Bargraph for Level RMS 20 Hz to 20 kHz
--------------------------------	---

---

<b>Scope</b>	Auto triggering, auto ranging, auto scaling
--------------	---

---

<b>Filters</b>	Flat, A-weighting, C-message, Highpass 22 Hz / 60 Hz / 400 Hz, Voice bandpass, XCurve <sup>-1</sup>
----------------	--

---

## NTI article codes :

Minilyzer ML1  
Minilyzer ML1 incl. MiniLINK USB PC Interface

600 000 011  
600 000 030