



Technical Specification, Software V1.10

updated Jan 2001

Measurements Level-RMS, Level-Relative, THD+N, vu+PPM, Frequency, Polarity, Signal Balance Error, Sweep, 1/3rd Octave Spectrum, Scope

Level

Units dBu, dBV, V_{RMS}
 Resolution 3 digits (dB-scale) or 4 digits (V-scale)
 Accuracy $\pm 0.5\%$ @ 1 kHz
 Bandwidth 20 Hz to 20 kHz
 Flatness ± 0.1 dB

Frequency

Range 10 Hz to 20 kHz
 Resolution 4 digits
 Accuracy $< \pm 0.1\%$

THD+N (Total Harmonic Distortion + Noise)

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.

Polarity Test (with MR1 test signal)

In-phase / out-of-phase detection through internal microphone or XLR/RCA connector. For tweeters, midrange-speakers and woofers down to 10 dB S/ N input signal.

Signal Balance Error Indication range 0.0 % to 100 %
 Deviation from perfect balance in % or *1

Frequency Sweep level as function of frequency

Time Sweep parallel measurement of level, THD+N and frequency as function of time

1/3rd Octave 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

Scope Auto triggering, auto ranging, auto scaling

Filters Linear, A-weighting, C-message, Highpass 22 Hz / 60 Hz / 400 Hz, Voice bandpass

Input Connectors XLR balanced, RCA unbalanced

Input Impedance 40 k Ω balanced, 20 k Ω unbalanced

Input RMS¹ (upper measurement limit)

balanced +20 dBu (7.75 V_{RMS})
 unbalanced +14 dBu (3.8 V_{RMS})

Max. DC Input ± 35 V_{DC}

Residual Noise < 12 mV, XLR-input shorted

Microphone Input (for Polarity measurement only)

Omnidirectional

Monitor Output Jack 3.5 mm (1/8"), suitable for all common headsets

Display Graphic LCD 64 x 100 pixel, with backlight

Batteries 3x AA package dry batteries (alkaline)
 Typical battery lifetime > 16 hrs

Dimensions (L x W x H)

163 x 86 x 42 mm (6.4" x 3.38" x 1.63")

Weight 300 g (10.5 oz) incl. batteries

Temperature 0° to +45° C (32° to 113° F)

Humidity $< 90\%$ R.H., non condensing

¹ for input levels > 20 dBu (balanced) a 20 dB attenuator is available