

SPECIFICATION TY-01.2

SPECIFICATIONS FOR LEVEL METER WITH BUILT IN LEVEL GENERATOR

Portable level meter with digital frequency display suitable for measurements on Power Line Carrier equipment.

1. LEVEL METER TECHNICAL SPECIFICATIONS

1.1. FREQUENCY

1.1.1. Frequency range	200Hz to 1,6Mhz
1.1.2. Frequency error limits	$\pm 5 \times 10^{-6}$ ± 1 Hz

1.1.3. Frequency setting

Numeric via keypad, resolution	1 Hz
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1.1.4. Automatic Frequency setting

1.1.4.1. Automatic search,
storage of 100 frequency-level pairs

1.1.4.2. AFC

Accuracy	± 1 Hz $\pm 1\%$ of selected BW
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1.1.5. Frequency display	6 digits
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1.2. INPUT IMPEDANCE

1.2.1. Coaxial (with BNC type socket)	75 Ω , high impedance
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1.2.2. Balanced (banana type 4mm)	75, 600 Ω , high impedance
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1.3. BANDWIDTH (3dB) (selectable)	≤ 25 Hz 1,95 kHz and 3,1 kHz
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1.4. LEVEL AND VOLTAGE MEASUREMENTS

1.4.1. Power level (dBm) referred to	1mW
1.4.2. Voltage level (dB) referred to	0,775V
1.4.3. Total error limit (selective measurements)	$\pm 0,8$ dB
1.4.4. Total error limit (wideband measurements)	± 1 dB

1.4.5. Voltage and level display

1.4.5.1. Digital display	4 digits and
1.4.5.2. Quasi-analogue bar graph	

2. LEVEL GENERATOR TECHNICAL SPECIFICATIONS

2.1. OUTPUT IMPEDANCE

selectable 75, 600 Ω

2.2. FREQUENCY

2.2.1. Tracking generator

2.2.2. Frequency range 200 Hz to 1,6 Mhz

2.2.3. Frequency display 6 digits

2.3. OUTPUT LEVEL

2.3.1. Display units absolute level dB, dBm

2.3.2. Level setting

2.3.2.1. Via keypad, resolution 0,1 dB

2.3.2.2. Quasi-analogue via up/down keys

2.3.3. Level display

4 digits

2.3.4. Level range -40 dB to 10dB

2.3.5. Error limits $\pm 0,5$ dB

2.3.6. Frequency response $\pm 0,5$ dB

2.3.4. Spurious voltages

2.3.4.1. Harmonic attenuation ≥ 40 dB
2nd and 3rd order $f \geq 200$ kHz

2.3.4.2. Suppression of discrete, ≥ 60 dB
non-harmonic spurious signals

3. GENERAL SPECIFICATIONS

3.1. Battery or 220VAC line operation

3.2. Robust construction for on-site field usage

3.3. Operating temperature range 0 to +40 $^{\circ}\text{C}$

3.4. Weight with batteries up to 3Kg

4. ACCESSORIES

Operating manuals in paper form