

## 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  $\pm 5 \times 10^{-6}$   $\pm 1$  Hz

#### 1.1.3. Frequency setting

Numeric via keypad, resolution 1 Hz

#### 1.1.4. Automatic Frequency setting

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

#### 1.1.4.2. AFC

Accuracy  $\pm 1$ Hz  $\pm 1\%$  of selected BW

1.1.5. Frequency display 6 digits

### 1.2. INPUT IMPEDANCE

1.2.1. Coaxial 75 $\Omega$ , high impedance

(with BNC type socket)

1.2.2. Balanced 75, 600 $\Omega$ , high impedance

(banana type 4mm)

### 1.3. BANDWIDTH (3dB)

$\leq 25$ HZ 1,95 kHz and 3,1 kHz

(selectable)

### 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  $\pm 0,8$ dB

(selective measurements)

1.4.4. Total error limit  $\pm 1$ dB

(wideband measurements)

#### 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  $\Omega$

### 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  $\geq 40$  dB  
2<sup>nd</sup> and 3<sup>rd</sup> order  $f \geq 200$  kHz

2.3.4.2. Suppression of discrete, non-harmonic spurious signals  $\geq 60$  dB

## 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  $^{\circ}$ C

3.4. Weight with batteries up to 3Kg

## 4. ACCESSORIES

Operating manuals in paper form