Features

- 85 hours operation with dry cells
- 30 Hz to 20 kHz level generator
- 0 Ω, 600 Ω, 1200 Ω impedance
- 16 Spot frequencies
- Single Step or Sweep

LEVEL GENERATOR LG11

Transmission Testing

H HEUER INSTRUMENTS

LEVEL GENERATOR LG11
30 Hz to 20 kHz

The Level Generator LG11 is a handheld battery powered instrument.

Easy and Fast Operation

The LG11 has been designed for ease of use without requiring the use of a handbook. The frequency and level of the output signal can be quickly and easily set using only the rotary knobs. Other modes of operation are configured by pressing a single button.

A 32 character, 2 line LCD gives a clear indication of impedance, level and frequency.

Battery Life

Long battery life is one of the most important features of portable equipment. The LG11 runs for 85 hours on quality dry cells. The battery condition is continuously monitored and if the voltage falls below 3.8 V a warning is given.

Frequency Range

The output frequency of the LG11 can be varied over a wide range between 10 Hz and 20 kHz. Resolution of 0.1 Hz is possible over the whole range.

A set of predefined frequencies in the range 200 Hz to 4000 Hz, are provided which enable the user to quickly step through commonly used frequencies. The LG11 is also capable of continuously sweeping through the spot frequencies to characterise the frequency response of a circuit.

Level Range

The output level can be set between –55 dBm and +10 dBm with a choice of output impedances: 0 Ω, 600 Ω or 1200 Ω.

Loop Hold

The LG11 will automatically hold a subscriber loop when connected by sinking the DC current.

Technical Specifications (LG11)

Frequency

Range	30 Hz to 20 kHz
Resolution	1 Hz: 30 Hz to 1 kHz 10 Hz: 1 kHz to 20 kHz
Spot Frequencies	200 Hz, 300 Hz, 400 Hz, 600 Hz, 820 Hz, 1020 Hz, 1200 Hz, 1600 Hz, 1800 Hz, 2000 Hz, 2400 Hz, 2700 Hz, 3000 Hz, 3400 Hz, 4000 Hz
Accuracy	± 1 %
Sweep Mode	The following sequence is provided - 820 Hz reference for 10 sec - pause for 5 sec - spot frequencies for 5 sec each - pause for 5 sec
Control	Individual spot frequencies are selected by quickly stepping through the spot frequenies
Variable	Continuous coverage between spot frequencies, 30 Hz to 20 kHz
Accuracy	± 0.1 %
1 kHz reference	A 1000 Hz ± 0.1 % crystal locked reference signal for frequency offset measurements

Level

Range	-55 dBm to +10 dBm
Accuracy	± 0.2 dB
Resolution	0.1 dB
Control	INC/DEC selected digit in display

Distortion

Harmonics	< -60 dB

Impedance

Output Impedance	0 Ω, 600 Ω, 1200 Ω balanced
Output Return Loss	>25 dB, over the frequency range

Balance Ratio

>40 dB when measured with ITU O.121

Loop Hold

The instrument is capable of holding a looped telephone circuit

Interfaces

Output	balanced, floating 3-pin 4 mm CF connector
Charging	2.5 mm DC socket

Power Supply

Battery Type	4 AA (NiCd or Alkaline)
Battery Life	25 hrs typical (NiCd) 85 hrs typical (Alkaline)
Low Battery Indication	< 3.8 V
AC Operation (& charging)	Ext. Adaptor: 240Vac to 6 Vdc (100mA)
Auto Power-Off	12 mins after last button press

General

Display	16x2 LCD
Operating Temperature	0 °C to 50 °C
Storage Temperature	-20 °C to 60 °C
Dimensions	178 mm x 97 mm x 55 mm (L x W x H)
Weight	790g with batteries

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