



THE LAB EQUIPMENT

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Product Name :

Signal Generator and Amplifier

Product Code :

SLE/PHY/130



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Description :

The Signal generator is a robust instrument and can withstand prolonged short circuit for the output.

The earth provided is connected to the physical earth through the power cord; the signal generator output is floating with respect to ground.

Power supply unit with detachable power lead for easy storage

Technical Specifications :

Frequency Range: 0.1 Hz to 99.9 KHz in six decades, read on digital display.

Frequency Accuracy: 0.01% (100 ppm) in all ranges

Output waveform: Sine, Rectangular and Triangular

High Impedance Output: Maximum 17V peak to peak from internal source impedance of 600 Ω

Low Impedance output: 6V R.M.S. at 4 Ω (about 8.8V peak for all waveforms)

Maximum Power output of 4.5W available over the entire frequency range for all waveforms.

Maximum Power Transfer occurs when the load is 4 Ω , giving $6^2/(4+4) = 4.5W$

Frequency Response: DC to 100KHz, -3 dB, output power 4.5W into 4 Ω load

Controls : All control settings except amplitude are stored and updated upon any changes.

Amplitude Control: Variable from zero to maximum output in 256 increments, amplitude is displayed by a 10 segment bar graph

Attenuation: x1, x 0.1, x0.01, $\pm 1\%$, operating only on the 600 Ω output.

Amplifier voltage gain: 100

Electric Supply: 220V~240V, 50Hz

Dimensions: approx. 210mm x155mm x 118mm L X W x D

Weight : Approx. 2.05kg, without power cord

Internal fuse is T315mA L

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