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Product Name :

Signal Generator and Amplifier

Product Code :

SLE/PHY/130



Description :

Signal Generator and Amplifier (Product Code: SLE/PHY/130) is a combined functiongenerator and power amplifier used to drive loudspeakers, vibrators and other wave apparatus inschool and college physics and electronics laboratories. It produces sine, rectangular andtriangular waves from 0.1 Hz to 99.9 kHz, shown on a digital display with 0.01% frequencyaccuracy, and delivers up to 4.5W into a 4 ? load. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its range of test and measurement instruments in India.

Specifications

Parameter	Detail
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 waveforms	Sine, rectangular and triangular
High impedanceoutput	Maximum 17V peak to peak from an internal source impedance of600 ?
Low impedance output	6V RMS at 4 ? (about 8.8V peak for all waveforms)
Power output	Maximum 4.5W over the entire frequency range for all waveforms; maximum power transfer into a 4 ? load: $6^2/(4+4) = 4.5W$
Frequency response	DC to 100 kHz, -3 dB, output power 4.5W into 4 ?
Amplitude control	Zero to maximum in 256 increments, displayed on a 10-segment bar graph
Attenuation	x1, x0.1, x0.01, ±1%, on the 600 ? output only
Amplifier voltage gain	100
Settings memory	All control settings except amplitude are stored and updated on any change
Output protection	Withstands prolonged short circuit; output floating with respect to ground; earth connected through the power cord
Electric supply	220V~240V, 50Hz; detachable power lead; internal fuse T315mA L
Dimensions	Approx. 210 x 155 x 118 mm (L x W x D)
Weight	Approx. 2.05 kg without power cord
Product code	SLE/PHY/130
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Signal Generator and Amplifier Used For?

One instrument covers two jobs. As a signal generator it supplies clean test waveforms for oscill , vibrat ling wave meas

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