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**Product Name :**

Signal Generator & Amplifier

**Product Code :**

SLE/PHY/292



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## Description :

**Signal Generator & Amplifier** (Product Code: SLE/PHY/292) is a bench function generator used to produce sine, square, triangular, pulse and TTL/CMOS signals for electronics and physics experiments in schools, colleges and training labs. It covers 1 Hz to 100 kHz in five ranges, andall of its outputs can be used at the same time. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as a function generator for lab use in India andinternational markets.

### Specifications

| Parameter | Detail |
|---|---|
| Waveforms | Sine, square, triangular, pulse and TTL/CMOS-compatible square wave |
| Frequency range | 1 Hz to 100 kHz, adjustable |
| Range steps | Five steps: 1 Hz, 10 Hz, 100 Hz, 1 kHz and 10 kHz, with a x10 multiplier |
| Amplitude control | Coarse and fine controls on the front panel |
| Simultaneous outputs | Pulse, TTL/CMOS and sine/square/triangular outputs all availableat once on the front panel |
| Pulse and TTL/CMOS level | Fixed amplitude, compatible with TTL/CMOS logic |
| VCO input | Output frequency follows a DC voltage of 0.1 V to 10 V at the VCO IN socket, with the toggle switch set to external |
| Mains input | 120 V, 60 Hz or 240 V, 50/60 Hz (selectable) |
| Dimensions | 215 x 180 x 130 mm (W x D x H) |
| Weight | About 1.5 kg |
| Product code | SLE/PHY/292 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India |

### What Is the Signal Generator Used For?

A function generator is the standard signal source for an electronics bench. Students feed its sine output into RC and LC circuits to plot frequency response and find resonance, use the square wave to watch capacitor charging on an oscilloscope, and drive counters, flip-flops and logic gates directly from the TTL/CMOS output. Because the pulse, TTL/CMOS and analogue outputs work simultaneously, one unit can clock a digital circuit while also supplying a test signal.

The VCO input adds a useful extra: a DC voltage between 0.1 V and 10 V sets the output frequency, so students can demonstrate frequency modulation or sweep a filter by hand with a potentiometer. In physics lessons the signal generator for electronics labs doubles as the test sourc er direct ency.

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