

Measurement Of Speed Using Photoelectric Pickup



Product Categories: [Electronics](#), [Engineering Equipment](#), [Instrumentation Lab](#), [Instrumentation Lab](#)

Product Page:

<https://www.labappara.com/product/measurement-of-speed-using-photoelectric-pickup/>

Product Description

Measurement Of Speed Using Photoelectric Pickup

Speed measurement by photoelectric (optical) transducer is a convenient method, since many type of photon devices are available. In present set up a photo diode is used as transducer. A photo diode (in reverse bias mode) is a device the resistance of which falls to great extent when it is exposed to light radiation. In actual we must describe the system before the transducer. A light emitting diode and a photo diode is mounted in such way that full radiated energy falls upon the diode.

SPECIFICATIONS:]

Speed measurement using photo electric pickup transducer can be done using this kit.

On-board RPM meter for measurement of speed

On-board potentiometer for varying speed

On-board photo electric sensor and DC motor with shaft

On-board push button to reset the count

On-board signal conditioning circuit

Test points are provided at various stages to observe the signals and waveforms

Interconnection: 2/4mm banana sockets

DC Supply: Built-in (IC) DC regulated power supplies

220V $\pm 10\%$, 50Hz mains operated

Enclosed in an attractive ABS plastic cabinet with cover