

Measurement Of Speed By Magnetic Pickup



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

Product Page:

<https://www.labappara.com/product/measurement-of-speed-by-magnetic-pickup/>

Product Description

Measurement Of Speed By Magnetic Pickup

FEATURES :

This kit demonstrates measurement of speed using Magnetic pick up transducer and is a versatile stand alone unit useful in the study and demonstration of the principle and working of a speed measuring system using magnetic pick up. The trainer consist of the complete instrumentation viz., pulse generator, counter circuit, decoder, driver and seven-segment display to indicate the speed controller. The motor unit with magnetic pick up is separately housed.

TECHNICAL SPECIFICATIONS Motor : Specially designed bi-directional permanent magnet armature controlled DC motor.

Power : 6 Watts.
Speed : 3000 RPM max.
Voltage : 12V DC.
Torque : 0.3 kg. cm.

Mounting	:	Motor mounted with wheel and magnetic pick up transducer.
Connector	:	Special connector with wires to connect motor unit to measuring unit.
MAIN MEASURING UNIT : Parameter Measured	:	Speed in RPM.
Speed Control	:	Built in solid state speed controller voltage based.
System Range	:	5000 RPM Max.
Instrumentation	:	Pulse generator, counter, decoder, driver.
Readout	:	4 digit digital readout 0.5" Red.
Controls	:	a. Speed control. b. Mains ON / OFF.
Connector	:	Facility for connecting the motor unit.
Test Points	:	Multi - coloured test points are provided at various stages in the circuit to observe waveforms and voltages.
Indicator	:	Mains ON / OFF.
Power Requirements	:	230V, $\pm 10\%$ AC, 50Hz 1f.
Panel Size	:	10" x 13".