



The Setup for Speed Measurement (52350) gives an idea regarding the application of Digital Stroboscope and inductive proximity sensor to measure speed in industrial environment.

The Digital Stroboscope is a microprocessor circuit design, high accuracy, digital readout, light duty, that is ideal for inspecting and measuring the speed of moving gears, fans, centrifugal pumps, motors and other equipments used in general industrial maintenance, production, quality control, laboratories and as well as for schools and colleges for demonstration strobe action.

Features

- Compact Ergonomic Design.
- User Friendly, Self Explanatory Systems.
- Robust Construction.
- Enhanced Electrical Safety Considerations
- Training Manuals for Operation Ease.
- Inbuilt Safety Measures to avoid improper usage.
- Test points provided on front panel to measure pulses.

Experiments

- Study of Digital Stroboscope.
- Study of Proximity sensor for speed measurement

Services Required

- Electric Supply- 1 ϕ 230 VAC

Note: Specifications are subject to change.

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Technical Specification

No.	Item Name	Technical Specifications
1	Display	0.4" LED, 4 Shaft encoder with pointer
2	Stroboscopic Flash Rate	100 to 10,000 flashes per minute Supply Voltage: 1φ 230 VAC
3	Accuracy	±(0.05%+1 digit)
4	Resolution	0.1 FPM/RPM (LESS THAN 1,000) FPM/RPM 1 FPM/RPM (LESS THAN 1,000) FPM/RPM 10 FPM/RPM (LESS THAN 1,000) FPM/RPM
5	Sampling Time	1 second
6	Range Select	Automation
7	Circuit	One chip of microcomputer LSI Circuit & crystal control time base
8	Power Supply	230 VAC ±50/60 Hz
9	Power consumption	Less than 30 watt
10	Operating Temperature	0 to 50°C
11	Weight	1 Kg
12	Flash Tube	Xenon Lamp
13	Flash Duration	60 to 1000
14	Angular Scale	0° to 360°
15	Speed sensor	Inductive proximity/photoelectric pick-up, 2wire, 24 V DC
16	Speed indicator (RPM)	Supply voltage-230 VAC, Input from- inductive proximity or photoelectric pick-up, Mounting- flush on panel front, Display – 7 segment Red LED to measure speed of shaft of motor
17	AC/DC motor	Supply voltage:24 V DC/230 VAC FHP, Speed: 2000 RPM, Torque: ½ Kg

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