

**SAP E & C SPEED MEASUREMENT USING DIGITAL STROBOSCOPE & PROXIMITY SENSOR (PRODUCT CODE: SAP – 65)**



- The **Setup for Speed Measurement (SAP – 65)** 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.

**SPEED MEASUREMENT USING DIGITAL STROBOSCOPE & PROXIMITY SENSOR (SAP - 65)**

**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

**SAP E & C SPEED MEASUREMENT USING DIGITAL STROBOSCOPE & PROXIMITY SENSOR (PRODUCT CODE: SAP – 65)**



**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.

**Range of Experiments-**

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

**Services Required-**

- ❖ Electric Supply- 1 $\phi$  230 VAC

**Note-**

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

Manufactured/Marketed By

**SAP ENGINEERS & CONSULTANTS**



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