



52085.1 is a Digital Sensor Workstation consisting of instrument panel and working table suitable for students to learn and perform various experiments related digital sensors. Single phase 230V, 50 Hz input supply sockets are provided on the unit.

Technical Specifications

- Power Supply Unit
 - ♦ 230V/50Hz AC Socket.
 - ♦ One Pilot Lamp to indicate Power input.
 - ♦ Two different output connections
 - ♦ Potentiometer to vary the supply
 - ♦ DPM to display the output voltage
 - ♦ Power distribution of 24V/10A DC Output
- DC Motor Unit
 - ♦ 1 no. motor Speed control Pot P1
 - ♦ 1 no. of 24 V DC motor.
 - ♦ One Pilot Lamp
- Counter Unit
 - ♦ 230V/50Hz AC Socket
 - ♦ Seven segment display to display the event count.
- Sensors
 - ♦ 1 No. Inductive Proximity Sensor (M12)
 - ♦ 1 No. Inductive Proximity Sensor (M18)
 - ♦ 1 No. Fiber Optic Sensor with digital display & teach mode
 - ♦ 1 No. Diffusion Sensor PNP Type (M18)
 - ♦ 1 No. Through Beam Sensor PNP Type (M18)
 - ♦ 1 No. Reflect Sensor PNP Type (M18)
 - ♦ 1 No. Capacitive Proximity Sensor
- Work Surface and Sensing Unit
 - ♦ Sensing unit can be easily slide in T slots of aluminium extrusions metal scale
 - ♦ Work surface have the minimum dimension of 750mm x 500mm.
 - ♦ Work surface is made up of aluminium

Note: Specifications are subject to change.

extrusions (anodized) on which various sensors can be easily mounted.

- Aluminum profile Plate of 750mm x 550mm

Accessories

- Working Table – 1 No.
- Dial Vernier (Make: Mitutoyo) – 1 No.
- Digital Multimeter – 1 No.
- Measuring Metal Scale
- Set of 2mm patch cord
- Series of measuring wafers (sensing elements) are provided.

Experiments

- To study the basic of digital input & Output
- To study the basic function of digital Sensors
- To study the industrial application of digital Sensors
- To study and calibrate the digital sensor output
- To display & understand the variation in response time of various digital sensor
- To study electrical connections of various types of digital sensors
- To make output connections from various digital sensors.
- To study event counter using DC Motor & Inductive Proximity Sensor