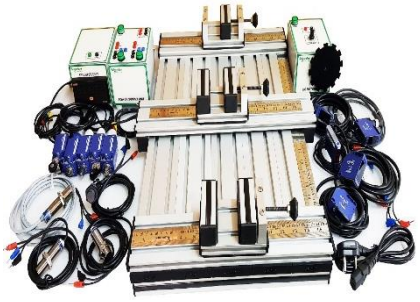
UIT-05 | **INDUSTRIAL DIGITAL SENSOR TRAINER** | **MAKE : KITEK**

The **UIT-05 Industrial Digital Sensor Trainer** is a comprehensive industrial sensor control training system that incorporates industrial-grade components with various control circuits. Its modular and closed loop control circuits allow implementation of open-ended, individual control loops used in industrial applications.



TECHNICAL SPECIFICATION

- Trainer having control panel should be provided in MS Enclosure with sturdy table top flat panel.
- All input & output are terminated in 2mm banana connector; Provide 2mm banana cable for experiments.
- **Power Supply Unit**
  - 230V/50Hz AC Socket.
  - One Pilot Lamp to indicate Power input.
  - 24V/2A Fixed DC Output
  - NPN & PNP Input / Output for Proximity Sensor with Pilot Lamp
- **DC Motor Unit**
  - 24V DC Motor with Speed Control Potentiometer
  - One Pilot Lamp to indicate Power Input
- **Counter Unit**
  - 230V/50Hz AC Socket
  - Seven Segment Display to measure 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**
  - Aluminum profile Plate of 750mm x 550mm
  - 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 Anodized Aluminium on which various sensors can be easily mounted.
- **Accessories**
  - Dial Vernier
  - Digital Multimeter
  - Measuring Metal Scale
  - Set of 2mm patch cord
  - Series of measuring wafers (sensing elements) are provided.
  - User's Manual
- **Working Table- (Optional)**
  - Work Table Size 1200x750x800 (L x W x H), with four castor wheels including two lockable wheels with Drawer size of L450mm x W500mm x H200mm.
- **Experiment**
  - 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