MTA SKILLLAB SDN. BHD.

AIoT Training System

Model: FA-AIOT-1006

- **Smart Production System**



PLC - Sensor - SCADA - IIoT - Digital Dashboard - Analysis

Overview

The Smart Production System is a modular training line made up of three standalone workstations. Each station has its own PLC, process sequence and status tower light. Mini conveyors transport workpieces between stations, allowing trainees to operate each workstation independently and then integrate all three into a complete production line. Material Distribution Station Sequence the feed material ; Material Transfer Station - assembly workpiece onto material ; Sorting Station - Identifies and sorts workpieces into three material categories

Learning Outcome

- Explain the production sequence
- Map and test the PLC I/O & Programming
- Connect production data from all three PLCs to the monitoring system
- Build a dashboard that displays live readings, historical trends and equipment operating status
- Configure alarm and notification at the IoT system
- Use trends and alarm history to calculate production performance and diagnose interruption

Technical Specification

Distribution Station

- Aluminum Profile workstation 750x750mmx820 LWH
- 50x700mm Mini conveyor
- Start/Stop/Auto/Manual/Reset Button
- Material Feeding Mechanism
- 3 type of material workpiece
- 3 level tower light
- 1200 series PLC
- 7" Operation HMI

Material Transfer Station

- Aluminum Profile workstation 750x750mmx820 LWH
- 50 x 700mm Mini Conveyor
- Start/Stop/Auto/Manual/Reset Button
- Material Pick n Place system
- Material feeding mechanism
- Vacuum Pick up with 10mm cup
- 1200 series PLC unit
- 7" Operation HMI

Sorting Station

- Aluminum Profile workstation 750x750mmx820 LWH
- 50 x 700mm Mini Conveyor
- Start/Stop/Auto/Manual/Reset Button
- Pneumatic Material sorting system
- Chute tray unit
- Inductive sensor & proximity switch
- 1200 series PLC unit
- 7" Operation HMI

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Courseware

- Training module consists of :
- Introduction to Industrial IoT
- Industrial Networking Protocol
- IoT Project creation
- IoT Dashboard
- OEE Analysis
- Lab/Experiments Manual

Training

- 2 days Fundamental PLC Programming Training
- 1 day Industrial Networking Training
- 3 days Smart Production and Analysis Training

Warranty

- 12 months product warranty against manufacturing defect only

Maintenance

- Locally support available (Penang/KL/JB)
- Twice a year maintenance support during warranty period

Technical Specification

IIoT Component

- i5 Industrial PC
- 55" LED Dashboard Monitor
- Industrial Network Switch
- Industrial Gateway
- 24vDC Power supply

Accessories

- Mini Air Compressor unit
- Maintenance tool set

Software

- WebAccess SCADA Software
- TIA Portal Programming Software

Brand : SKILLLAB
Made in Malaysia