MTA SKILLLAB SDN. BHD.

AIoT Training System

Model: FA-AIOT-1001

- **Production Monitoring & OEE Analysis**



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

Overview

The AI Production Monitoring & OEE quality analysis training equipment designed using standard industrial parts. Comprehensive vocational training and educational products based on experience and skill. Toward Industrial 4.0 the demand for high quality, greater efficiency and automated machines has increase in the industrial sector of manufacturing plants. Manufacturing plants require continuous monitoring equipment performance, availability and quality. Hence, SCADA and IoT is a vital tool in this process monitoring

Learning Outcome

- Explain Internet of Things in Industrial Revolution 4.0
- Configure the device for IoT project
- Develop IoT Project at cloud platform
- Develop variety panel in dashboard
- Configure alarm and notification at the IoT system
- Explain the benefits of operation efficiency
- Intelligence Production Analysis

Technical Specification

Workstation

- Coated finished metal IIoT structure
- Dimension 850x600x1700mm
- 42" Dashboard Monitor
- Aluminum Profile working panel
- Electrical Control panel
- Transparent door
- IIoT architecture training signboard

Electrical Control Panel

- Start/Stop/Reset/Auto/Man Button
- Siemens PLC 1200 series
- 24DC Power Supply 10A
- ECU Industrial Gateway
- Network switch 8 ports
- Digital analog converter
- DXM90 controller
- DXM interface cable
- Industrial PC
- MCB/fuse
- Single Phase AC230V

Sensor Device

- Temperature Humidity Sensor
- Laser Distance Sensor
- Smart Energy Metering

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Courseware

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

Training

- 2 days Fundamental PLC Programming Training
- 1 days Servo Motor Drive Training
- 1 day Industrial Networking Training
- 3 days OEE Dashboard 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

Application

- Rotary QC Indexing workstation
- Servo Motor 100W
- Servo Motor Driver
- Servo interface cable

Software

- WebAccess SCADA Software
- TIA Portal Programming Software

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