Advance PLC Omron CJ2M and Analog

Category: Mechatronics · Model reference: MZM-2013



SPECIFICATIONS

Description:
Omron Programmable Logic Controller Trainer is a system that integrate Omron PLCs with the I/O devices in a box to make easy to use. It can be used to control pneumatic, hydraulic and others automation devices or systems. The MZ Programmable Logic Controller Trainer is based on industrial standard PLC such as Mitsubishi, Omron, Nais/Panasonics, Siemens and Allen Bradley with various I/Os. The Programmable Logic Controllers boasts integrated I/O, power supply and CPU in a "unitized" package. Every model packs an extensive instruction set and abundant user memory. No other con- trolled is better suited to tackle modern automation demands in jobs ranging from the simplest and smallest I/O count, to those demanding the pinnacle of complexity and speed. In view of the growing popularity of 'Human Machine Interface' application in automation, this PLC trainer was developed. The HMI provide a software driven Interface for machine control as it provides soft operation switches, indicator, numerical data input and display, text and alarm messages display etc. With the flexible features, it enhances a control system in terms of user-friendliness. At the output ports of the trainer, there are indicator lamps connected parallelly with the output ports to indicate the logic status. At the input ports of the trainer, we there are number of switches to provide input to the PLC or it can be connected to external sensors or transducers directly or via a built-in I/O adaptor module. It is fully compatible with the MZ range of Training Systems. All the PLC MZ applications modules can be controlled from this device. The PLC is mounted on the expandable DIN track on the simulator console.

SPECIFICATION CPU UNIT
- Omron CP1E-E with a standard of 16 in- puts, 16 outputs, RS232C programming port and programming cables. USB port via RS232C converter.
- Built-in standard 24VDC switching power supply unit with short circuit protection. The I/O capacity can be expanded up to 512 I/O.
- Program capacity: 8Kwords
- Data memory capacity: 8Kwords
- Analog Inputs: 4 points (Optional)
- Analog Outputs: 2 points (Optional)
- Power Supply modules: 24VDC, 50/60 Hz

SIMULATOR CONSOLE
- Built-in standard 24VDC switching power supply unit with short circuit protection.
- Portable and sturdy casing.
- Digital Inputs: 16 integrated input LED indicators/ lamps, 16 integrated 4mm safety sockets and 16 integrated toggle switches.
- Digital Outputs: 16 integrated output LED indica-tors/lamps and 16 integrated 4mm safety sockets.
- Analog Inputs: 4 integrated simulated analog inputs (potentiometers) and 4 integrated external analog inputs (4 x 4mm safety sockets) with selector switches (to switch to potential meters for simulation or external input via 4mm sockets).
- Analog Outputs : 2 integrated analog outputs with 4mm safety sockets and analog voltmeters and 2 common ground points (2 x 4mm safety sockets).
- Built-in I/O External Adaptor Module - 16 inputs and 16 outputs for wire connection (if the application module does not have 4mm sockets for connection between plc and application module) via terminal blocks.
- Built-in Serial Communication Ports: RS232C, USB Port (RS232/USB converter).
- Human Machine Interface Unit (Touch Screen type) with RS232C programming port and programming cables. (Optional)
- Mounting type: DIN Track
- Power Supply: 24VDC via 4mm socket and terminal block.
- Common Ground: 0V via 4mm socket and terminal block

SOFTWARE (OPTIONAL)
CX-One Programming Software

COURSEWARE:
1. Student Workbook
2. Instructor's Guide
3. Programming Manual
4. Operation Manual
5. Lecturer Teaching Transparencies
6. Introduction to PLC Teaching Slides
7. Introduction to PLC Programming Teaching Slides

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