



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON CP1E PLC. You'll find the answers to all your questions on the OMRON CP1E PLC in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON CP1E PLC
User guide OMRON CP1E PLC
Operating instructions OMRON CP1E PLC
Instructions for use OMRON CP1E PLC
Instruction manual OMRON CP1E PLC




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CP1E PLC
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» Economical
» Efficient

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Manual abstract:

V. Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. @@ We reserve the right to make any changes at any time without prior notice. ECoNomiCaL Fitting your needs...exactly Compact & cost-effective Know one ... know them all Since the CP1E series shares the same architecture as all Omron's PLCs -but with a smaller yet powerful instruction set- programs are compatible across platforms and allow for easy upward migration.

Program capacity N-type CP1E CPU Units - Application Models 8K steps CP1E-N20D- BxDxH 86x85x90 CP1E-N30D- BxDxH 130x85x90 CP1E-N40D- BxDxH 150x85x90 The CP1E delivers an exceptional solution for automating small and compact machines, and is part of Omron's Lean Automation concept. Lean Automation fits into stand-alone machines or modules within a larger machine. Its merit lies in its simplicity, compactness and economically attractive solutions. E-type CP1E CPU Units - Basic Models 2K steps CP1E-E20DR-A BxDxH 86x85x90 CP1E-E30DR-A BxDxH 130x85x90 CP1E-E40DR-A BxDxH 150x85x90 20 30 40 Number of I/O points N-type Program capacity : 8 Ksteps DM Area capacity : 8 Kwords Timers/Counters : 256 each Option Battery High-speed counters : 100 kHz × 2 inputs and 10 kHz × 4 inputs All CPUs offer high- speed USB connection for easy connection and "Easy Input Editor" for faster programming by using an intuitive predictive ladder editor. Standard USB cables can be used for that purpose.

Two different families are available: CP1E-E is the economical yet powerful model, while the CP1E-N has a built-in real time clock, motion control capabilities, and an intelligent RS-232 port for connection to an HMI, bar code reader, robot or other serial device. Several option units are available to increase the functionality. E-type Program capacity : 2 Ksteps DM Area capacity : 2 Kwords Timers/Counters : 256 each High-speed counters : 10 kHz × 6 inputs Peripheral USB port Serial Option port : 1 port*1 Pulse outputs : 100kHz x 2 outputs*2 Serial communications port : RS-232C *1 *2 : Models with 30 or 40 I/O points. @@@@Computers can be connected using commercially available USB cables. @@@@An option board for an additional serial communication port can be added to N-type CPU unit.

Hmi connection High-speed counters Option units N-type CPU Unit with 30 or 40 I/O Points Expansion units and expansion I/O units Expansion Units and Expansion I/O Units Expansion I/O Units Analog I/O Units Temperature Sensor Units Fieldbus slaves Built-in RS-232C Built-in USB Serial option port RS-485 RS-232C option Board CP1W-CIF01 RS-422a/485 option Board CP1W-CIF11 (Maximum transmission distance: 50m) Units with 40 i/o CP1W-40EDR / CP1W-40EDT / CP1W-40EDT1 Units with 20 i/o CP1W-20EDR1 / CP1W-20EDT / CP1W-20EDT1 Units with 32 outputs CP1W-32ER / CP1W-32ET / CP1W-32ET1 Units with 16 outputs CP1W-16ER / CP1W-16ET / CP1W-16ET1 Units with 8 outputs CP1W-8ER / CP1W-8ET / CP1W-8ET1 Unit with 8 inputs CP1W-8ED analog i/o Unit CP1W-MAD11 analog input Unit CP1W-AD041 analog output Unit CP1W-DA041 Temperature Sensor Units (Thermocouples) CP1W-TS001 CP1W-TS002 Pulse outputs modbus-RTU master RS-422a/485 option Board (Isolated-type) CP1W-CIF12 (Maximum transmission distance: 500m) Temperature Sensor Units (Platinum Resistance Thermometers) CP1W-TS101 CP1W-TS102 CompoBus/S CP1W-SRT21 Profibus-DP CPM1A-PRT21 DeviceNet CPM1A-DRT21 CPM1A expansion units can be used under the same conditions as for the CP1W. Pulse outputs Two 100kHz pulse outputs for high-precision position control. Note : models with transistor outputs. modbus-RTU easy master Fast inverter control via RS-485. E-type CP1E CPU Units (Basic models) Product Name Specifications Power supply 100 to 240 VAC model inputs 12 18 24 outputs 8 12 16 output type Relay Relay Program Capacity 2K steps Data memory capacity 2K words E-type with 20 I/O Points E-type with 30 I/O Points E-type with 40 I/O Points Product Name CP1E-E20DR-A CP1E-E30DR-A CP1E-E40DR-A model N-type CP1E CPU Units (application models) HMI RS-485 Pulse outputs RS-232C Servomotor / driver High-speed counter Rotary encoder Inverter 24 VDC Specifications Power supply 100 to 240 VAC inputs outputs output type Relay Transistor (sinking) Transistor (sourcing) Relay Transistor (sinking) Transistor (sourcing) Transistor (sinking) Transistor (sourcing) Relay Transistor (sinking) Transistor (sourcing) Relay Transistor (sinking) Transistor (sourcing) Relay Transistor (sinking) Transistor (sourcing) Program Capacity 8K steps Data memory capacity 8K words N-type with 20 I/O Points 12 8 12 Digital + 2 Analog* 8 Digital + 1 Analog* 12 8 12 12 General-purpose motor N-type with 30 I/O Points 100 to 240 VAC 12 Digital + 2 Analog* 8 Digital + 1 Analog* 18 12 8K steps 8K words High-speed counters Control multiple axes with one PLC using the two 100kHz and four 10kHz, single-phase high-speed counters. Serial PLC links Link data with up to 10 words between up to nine CP1E-N CPU units. N-type with 40 I/O Points 24 VDC 100 to 240 VAC 24 16 8K steps 8K words 24 VDC HMI High-speed counter Rotary encoder Polling unit Polled node No. 0 Polled node No. 7 CJ1M CPU units can also be connected. Battery Set For N-type CP1E CPU Units Note: Mount a Battery to an N-type CP1E CPU Unit if the data in the following areas must be backed up for power interruptions.

DM Area (D) (except backed up words in the DM Area), Holding Area (H), Counter Completion Flags (C), Counter Present Values (C), Auxiliary Area (A), and Clock Function.(Use batteries within two years of manufacture.) Note: There are no accessories included with N-type CP1E CPU units. RS-232C connectors for the built-in RS-232C port and the battery (CP1W-BAT01) are not included. @@@ Polled Node No. 0 Polled Node No. 0 Polled Node No. 7 Polled Node No. 7 Polled Node No. 7



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