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- Digital panel indicators Electromechanical relays Monitoring products Solid-state relays • Limit switches • Pushbutton switches • Low voltage switch gear

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- Photoelectric sensors Inductive sensors Capacitive & pressure sensors
- Cable connectors Displacement & width-measuring sensors Vision systems
- Safety networks Safety sensors Safety units/relay units Safety door/guard lock switches

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» Easy to use » Economical » Efficient

CP1E PLC



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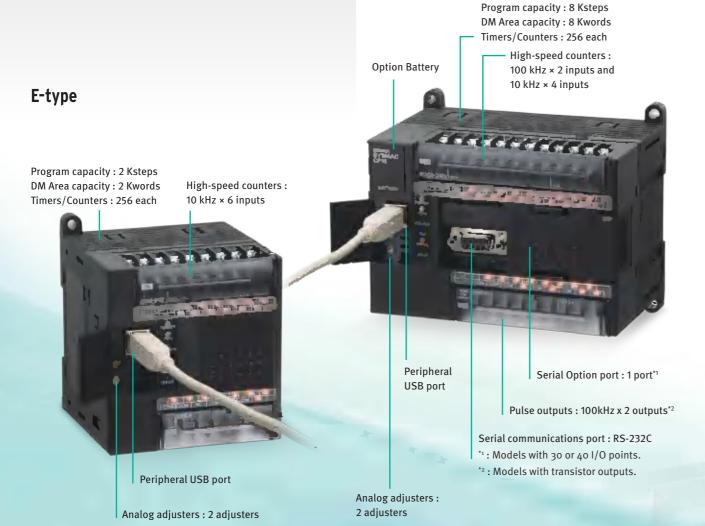
Compact & cost-effective

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.

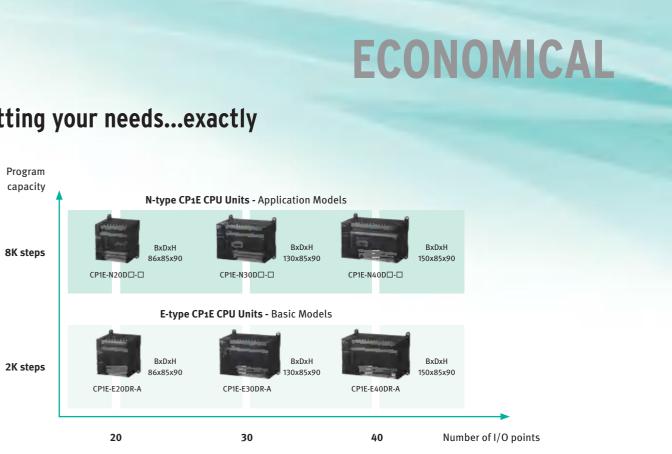
Know one ... know them all

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.

N-type



Fitting your needs...exactly



and "Easy Input Editor" for faster programming by using an intuitive predictive ladder editor. Standard USB cables can be used for that purpose.

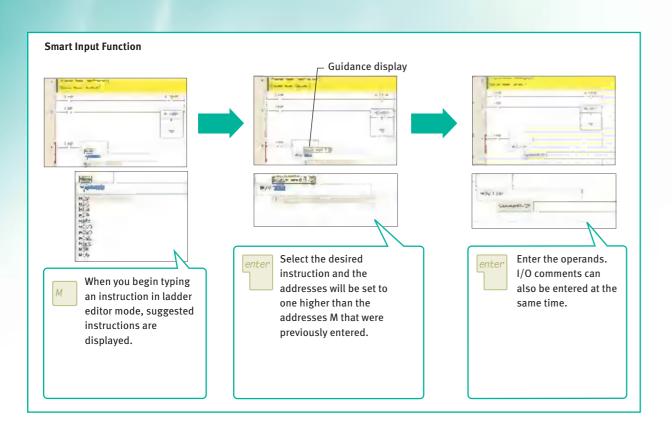
powerful model, while the CP1E-N has a built-in real time clock, All CPUs offer high- speed USB connection for easy connection motion control capabilities, and an intelligent RS-232 port for connection to an HMI, bar code reader, robot or other serial device. Several option units are available to increase the Two different families are available: CP1E-E is the economical yet functionality.



Simple and user friendly

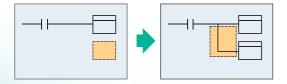
Easy to use input editor with smart input function

When you begin typing an instruction in ladder editor mode, suggested instructions are displayed.



User-friendly ladder program input

Automatic connecting line insertions With the Automatic connecting line insertions function the necessary connection is added automatically based on the curser position.



When an instruction is input at the curser, a connecting line is automatically inserted.

Automatic column insertion when inserting instructions The column is automatically inserted when an instruction is added even if the curser is above another instruction.

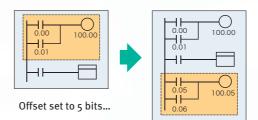


When an instruction is input at the curser, a column is automatically inserted for the instruction.

Easy to reuse ladder programming

Copying with address incrementing

To create the same group of ladder instructions more than once with the address addition copy function, the instructions can be reused simply by inputting an address offset.



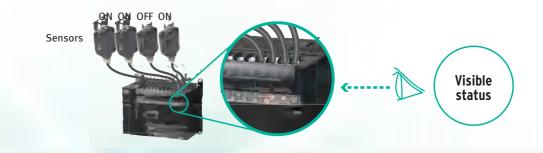
Only commercially available USB cables required

CP1E CPU Units use USB for the peripheral port. Computers can be connected using commercially available USB cables. Without the need for USB conversion cables or special cables, connection is easier and cable cost is low.



I/O status at a glance

The terminal layout display features I/O indicators. The indicators are in the same position as the terminals to let you see the I/O status at a glance. You can easily identify I/O status or perform status checks at startup or during operation.



EASY

Intuitive menu structure

Intuitive menu display

An intuitively designed menu structure makes it easy to see the overall system simply by looking at the menu for smooth operation without referring to a manual.



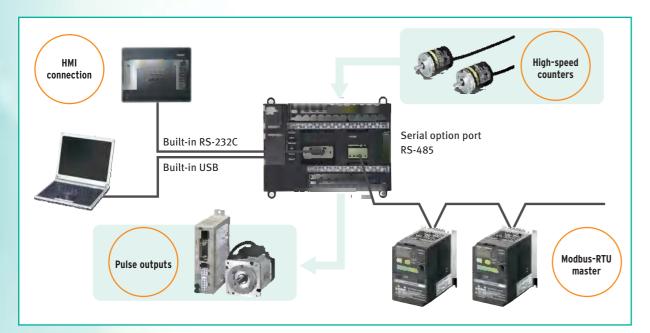


Efficient and effective



The machine controller for Lean Automation solutions

The CP1E N-type CPU units are equipped with high-speed counters, pulse outputs, and a builtin serial port. These features enable control of a wide range of devices.



Pulse outputs

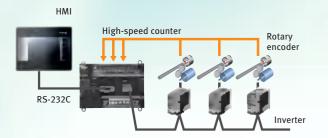
Two 100kHz pulse outputs for high-precision position control. Note : models with transistor outputs.



Servomotor / driver

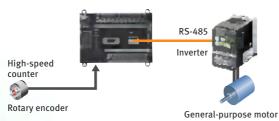
High-speed counters

Control multiple axes with one PLC using the two 100kHz and four 10kHz, single-phase high-speed counters.



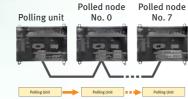
Modbus-RTU easy Master

Fast inverter control via RS-485.



Serial PLC links

Link data with up to 10 words between up to nine CP1E-N CPU units.

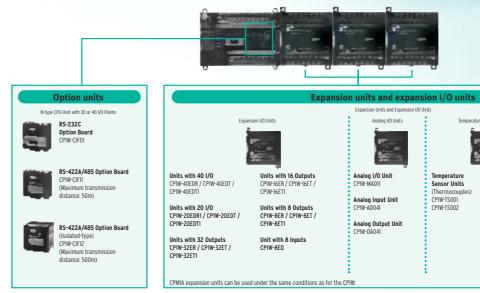






Optional units for more flexibility

Three expansion units are available. An option board for an additional serial communication port can be added to N-type CPU unit.



Product Name	Specifications	Specifications							
	Power supply	Inputs	Outputs	Output type	Program	Data memory			
					Capacity	capacity			
E-type with 20 I/O Points	100 to 240 VAC	12	8	Relay	2K steps	2K words	CP1E-E20DR-A		
E-type with 30 I/O Points		18	12	Relay]		CP1E-E30DR-A		
E-type with 40 I/O Points		24	16	Relay]		CP1E-E40DR-A		

Product Name	Specifications	Model						
	Power supply	Inputs	Outputs	Output type	Program Capacity	Data memory capacity		
N-type with 20 I/O Points	100 to 240 VAC	12	8	Relay	8K steps	8K words	CP1E-N20DR-A	
		12 Digital + 2 Analog*	8 Digital + 1 Analog*	7			CP1E-NA20DR-A*	
		12	8	Transistor (sinking)			CP1E-N20DT-A	
				Transistor (sourcing)			CP1E-N20DT1-A	
	24 VDC	12	12	Relay			CP1E-N20DR-D	
				Transistor (sinking)			CP1E-N20DT-D	
				Transistor (sourcing)			CP1E-N20DT1-D	
		12 Digital + 2 Analog*	8 Digital + 1 Analog*	Transistor (sinking)			CP1E-NA20DT-D*	
				Transistor (sourcing)			CP1E-NA20DT1-D*	
N-type with 30 I/O Points	100 to 240 VAC	18	12	Relay	8K steps	8K words	CP1E-N30DR-A	
				Transistor (sinking)			CP1E-N30DT-A	
				Transistor (sourcing)			CP1E-N30DT1-A	
	24 VDC]		Relay			CP1E-N30DR-D	
				Transistor (sinking)			CP1E-N30DT-D	
				Transistor (sourcing)			CP1E-N30DT1-D	
N-type with 40 I/O Points	100 to 240 VAC	24	16	Relay	8K steps	8K words	CP1E-N40DR-A	
				Transistor (sinking)			CP1E-N40DT-A	
				Transistor (sourcing)			CP1E-N40DT1-A	
	24 VDC	7		Relay			CP1E-N40DR-D	
				Transistor (sinking)			CP1E-N40DT-D	
				Transistor (sourcing)			CP1E-N40DT1-D	
Battery Set	For N-type CP1E C		CP1W-BAT01					
	(except backed up	Note: Mount a Battery to an N-type CPIE 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.(U	se batteries within two ye	ears of manufacture.)					

Note: There are no accessories included with N-type CPIE CPU units. RS-232C connectors for the built-in RS-232C port and the battery (CPIW-BAT01) are not included. *Note: CP1E-NA model available early 2010



Sensor Units (Platinum Resistance Thermomete CP1W-TS101 CP1W-TS102

