OMRON

CP1E

Cost-effective CP1E with Enhanced Expandability for Analog and Temperature Control

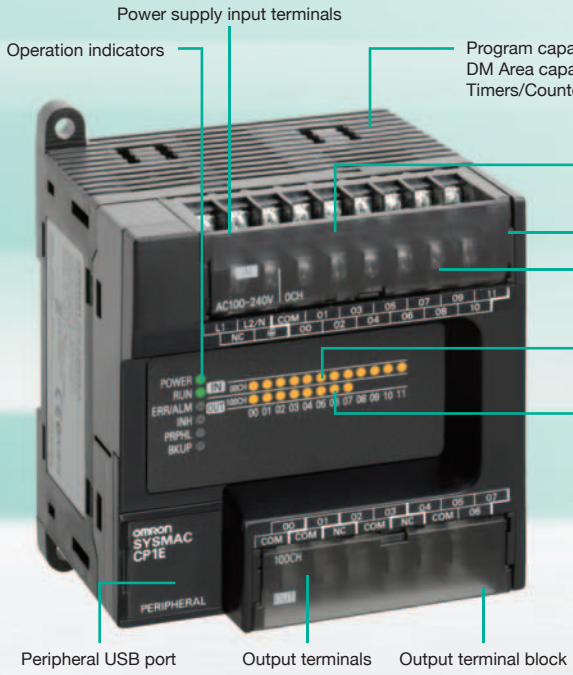
» Easy to use

» Economical

» Efficient

realizing

Cost-Effective, Easy Application, Application to Many Systems



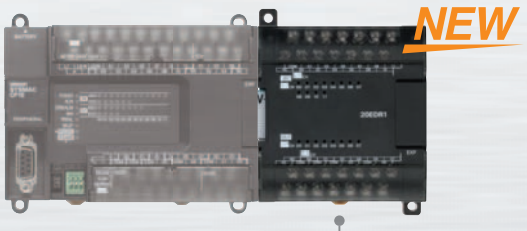
E□□S-type

The Basic Models provide cost performance and easy application.

Easy to use

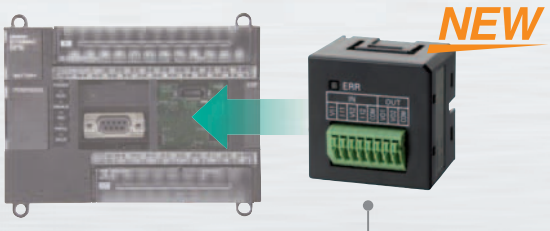
- Support Software with "Smart Input" intuitive operation.
- USB port provides. Support Software can be connected using commercially available USB cables.

Expanded capabilities to control analog I/O and temperature at minimum cost



Analog I/O Units
Up to 8 analog I/O per Unit, high resolution of 1/12,000

Temperature Sensor Units
Multi-inputs: thermocouple and analog inputs, up to 12 thermocouple inputs per Unit



Analog Option Board

Note: Can be mounted to the CP1E-N□□ only.

Exceptional Cost

Responding to Global Competition with More Device Control Possibilities

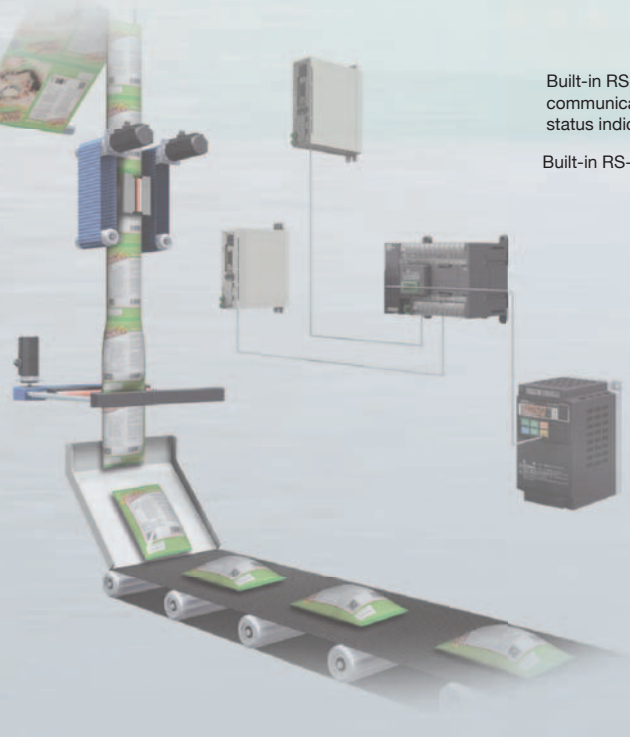
The CP1E provide high cost performance to further reduce costs by allowing you to select the optimal CPU Unit from the E□□S-type Basic Models or N/□□S(1)-type Application Models.

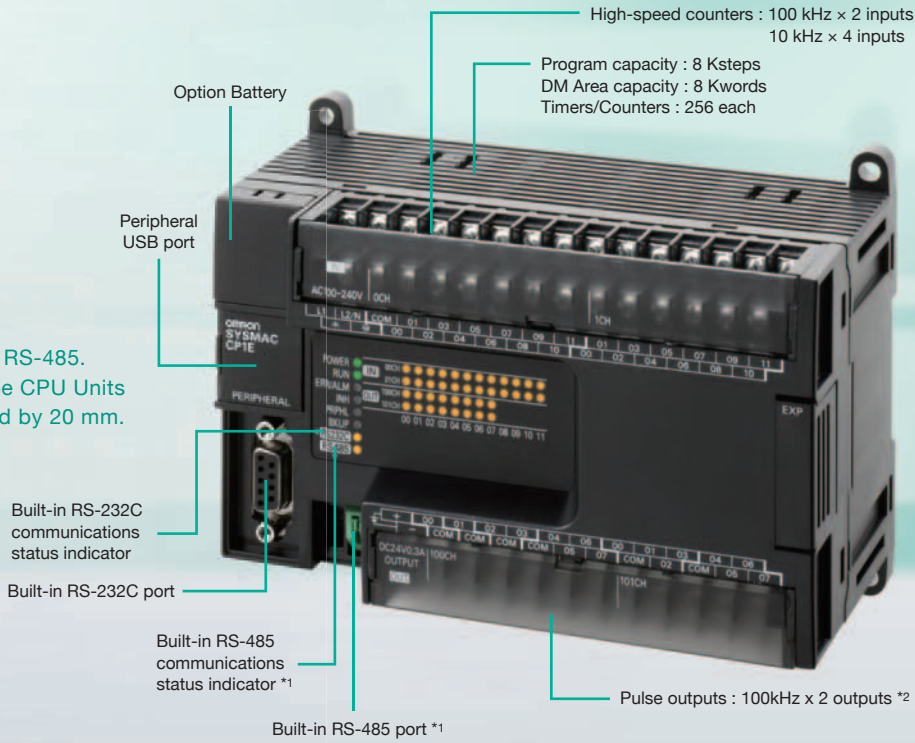
Economical

- Exceptional Cost.
- Optimal cost with a selection of two types of CP1E CPU Units.

Efficient

- Lineup including CPU Units with built-in three ports: USB, RS-232C, RS-485.
- The depth of the CP1E-N□□S(1)-type CPU Units with RS-232C connectors is reduced by 20 mm.





*1. N□□S1-type only.
*2. Models with transistor outputs.

N□□S(1)-type

Compatible with small Programmable Terminals and inverter-controlled position control.

Simple and User Friendly

Easy to use input editor with smart input function

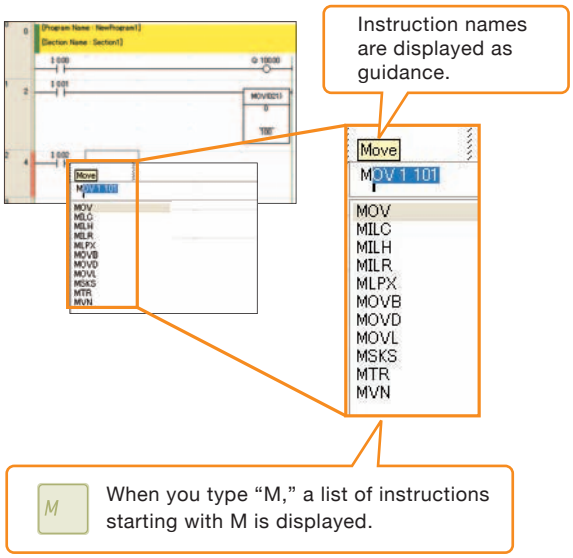
All Models

When you begin typing an instruction from the keyboard in Ladder Editor Mode, suggested instructions are displayed and the addresses are automatically entered. Connecting lines are added automatically based on the cursor position, enabling intuitive ladder programming.

Easy Input Editor

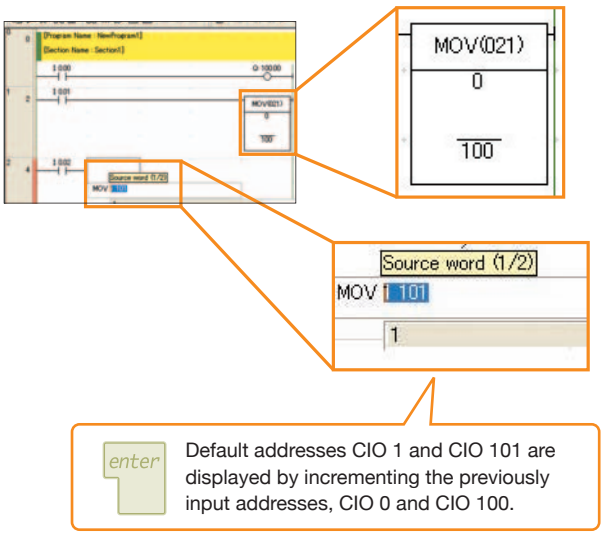
Instruction and Address Input Assist Functions

When you begin typing an instruction from the keyboard while in the Ladder Editor Window, suggested instructions are displayed. All you have to do is select the instruction from the list for easy input even if you do not remember the entire mnemonic.



Address Incrementing

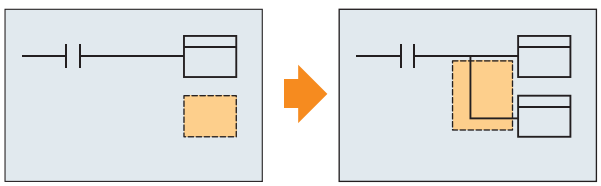
The address of the next operand, including input bits and output bits, is incremented by one and displayed as the default. This enables easily inputting consecutive addresses.



User-friendly Ladder Program Input

Automatic Connecting Line Insertion

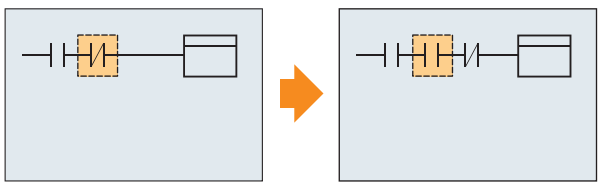
With the automatic connecting line insertion function the necessary connection is added automatically based on the curser position.



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.

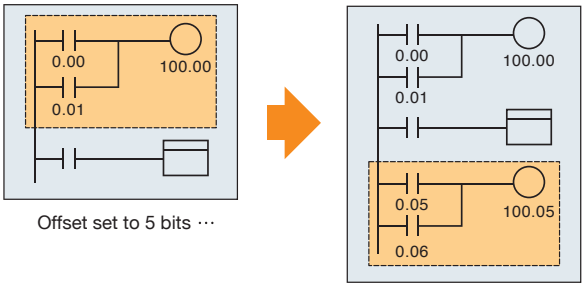


When an instruction is input at the curser, a column is automatically inserted for the instruction.

Easy to reuse ladder programming

Copying with Address Incrementing

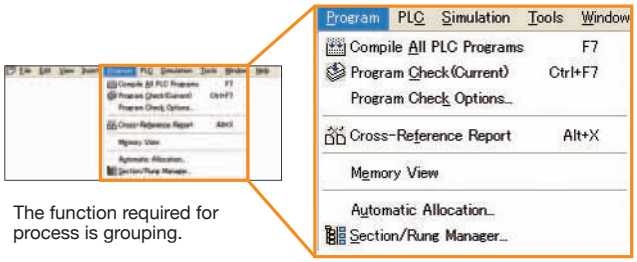
To create the same group of ladder instructions more than once with the address addition copy function, the instructions can be reused simply by inputting an address offset.



Intuitive Menu Structure

Intuitive Menu Display

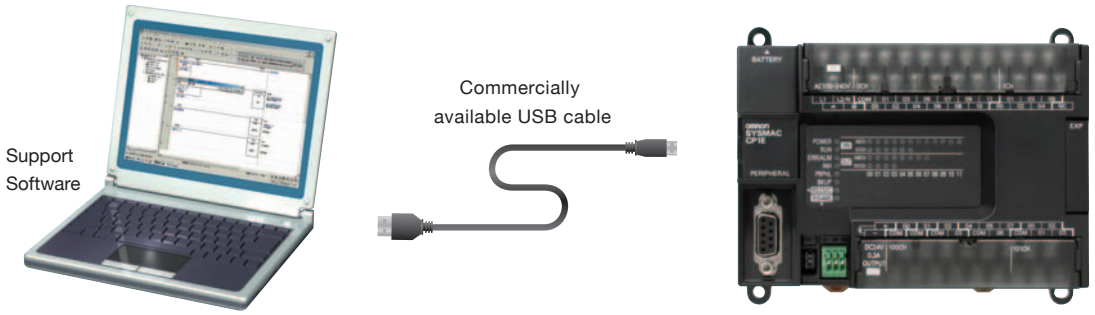
An intuitively designed menu structure makes it easy to see the overall system simply by looking at the menu for smooth operation without referring to a manual.



Only commercially available USB cables required

All Models

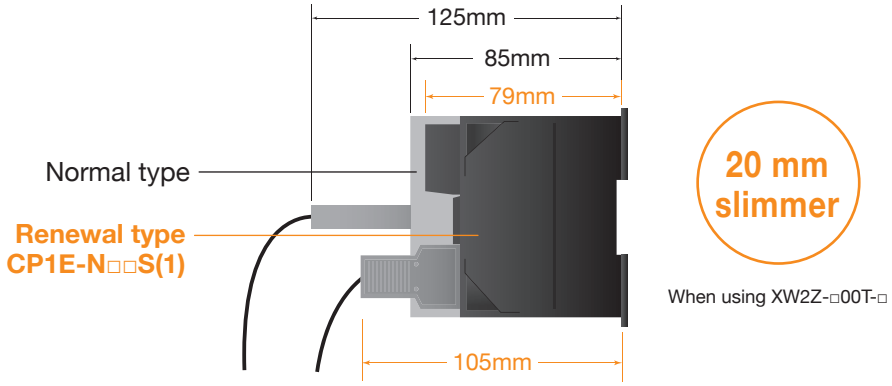
All CP1E CPU Units use high-speed USB for the peripheral port. Support software (computers) can be connected using commercially available USB cables. Without the need for USB conversion cables or special cables, connection is easier and cable cost is low.



The depth of CPU Units with RS-232C connectors is reduced by 20 mm

Renewal type

6 mm slimmer than the normal type.

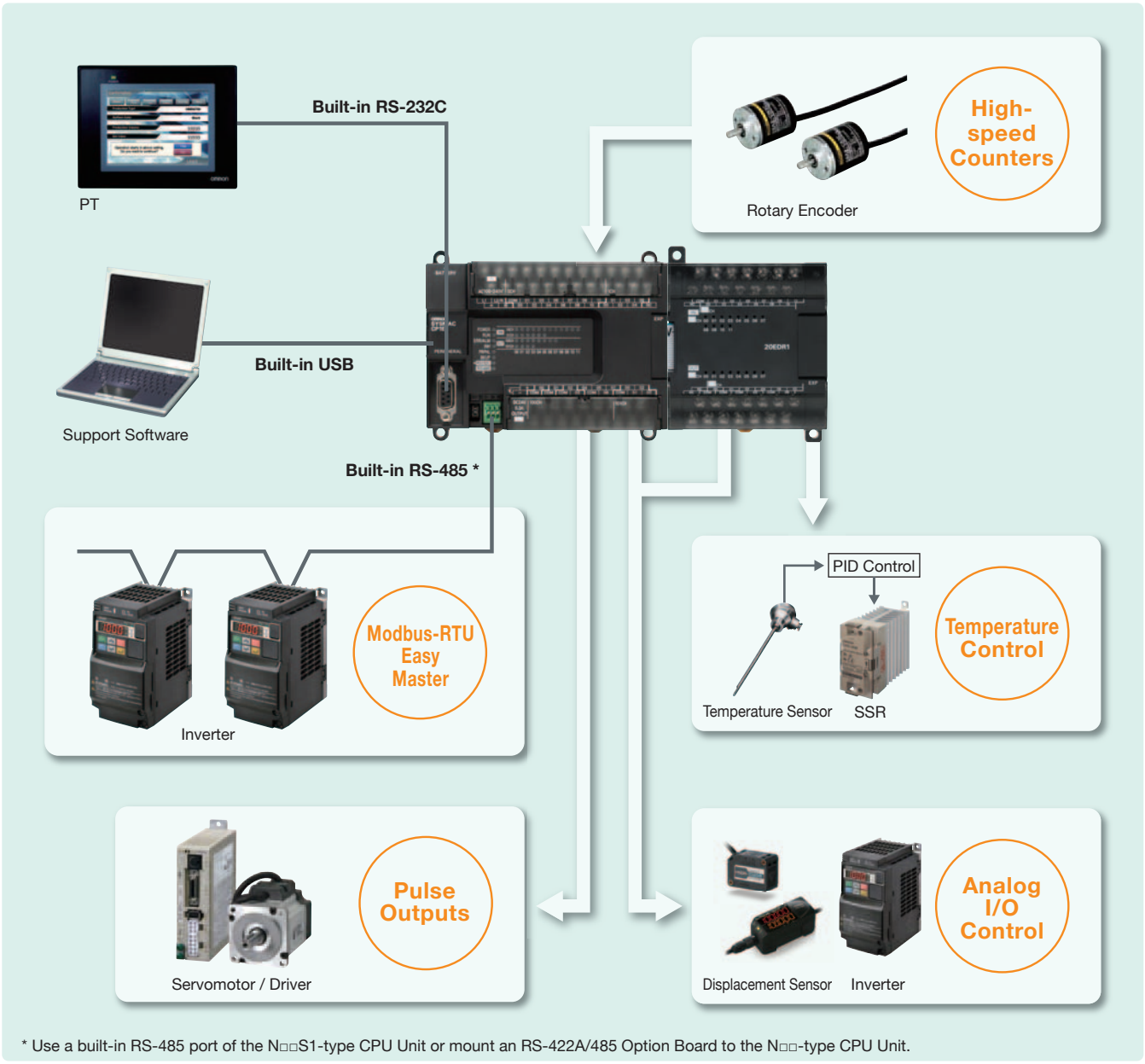


Efficient and Effective

More Applications with AdvancedControl Capabilities and Functionality

Application Models

The Application Models (CP1E-N□□ /N□□S(1)) are equipped with high-speed counters, pulse outputs, and a built-in serial port(s).
In addition, using the Expansion Unit and Option Board, you can control a wide range of devices.



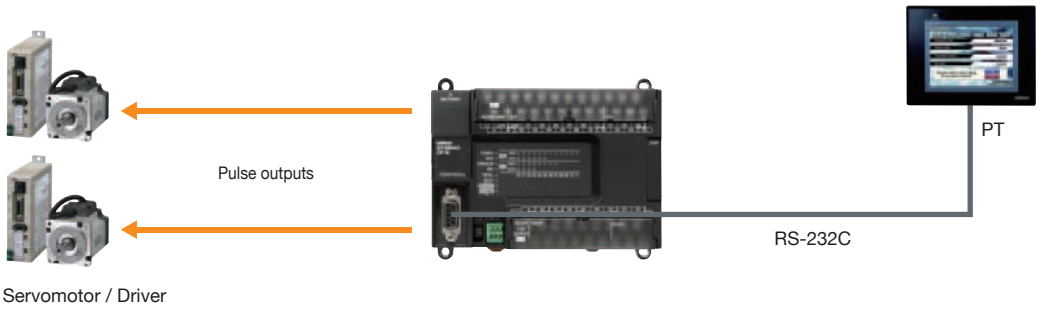
* Use a built-in RS-485 port of the N□□S1-type CPU Unit or mount an RS-422A/485 Option Board to the N□□-type CPU Unit.

**Flexibly handle even small-scale systems.
Various Option Units available for
increased expandability.**

Pulse Outputs

Models with transistor Output

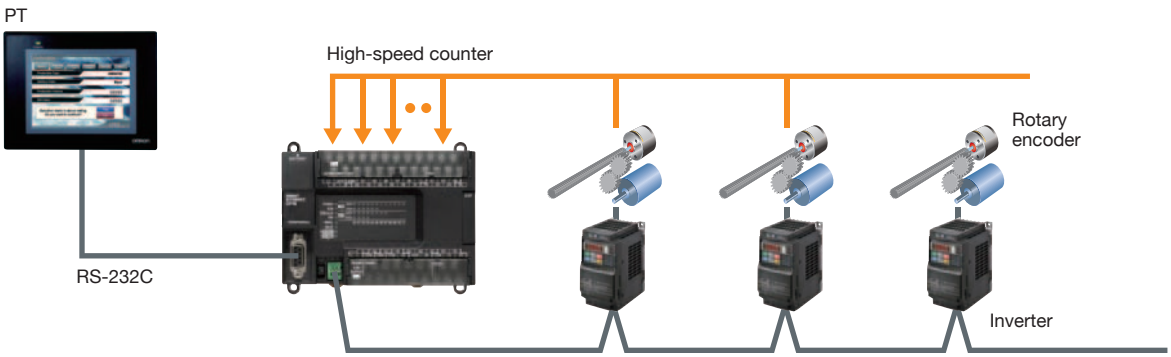
Two 100kHz pulse outputs for high-precision position control.



High-speed Counters*

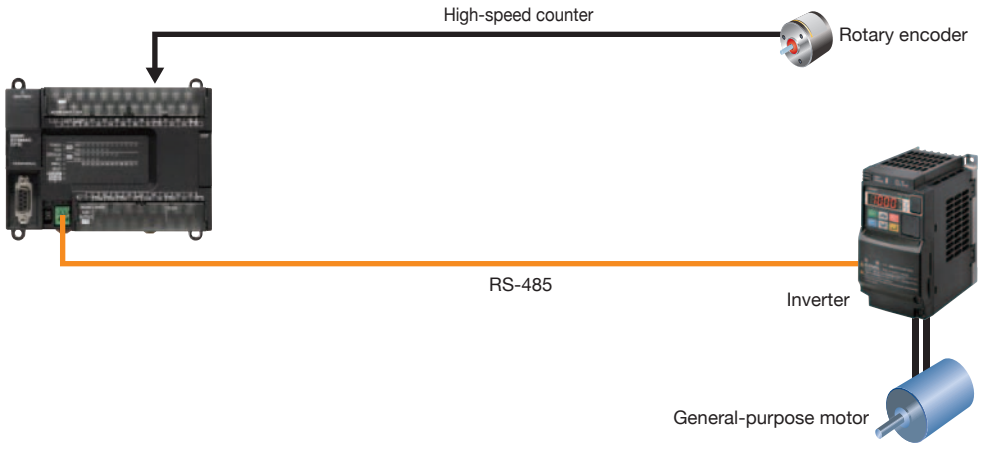
Control multiple axes with one PLC using the two 100kHz and four 10kHz, single-phase high-speed counters.

* The Basic Models are equipped with six 10kHz, single-phase high-speed counters.



Modbus-RTU easy master

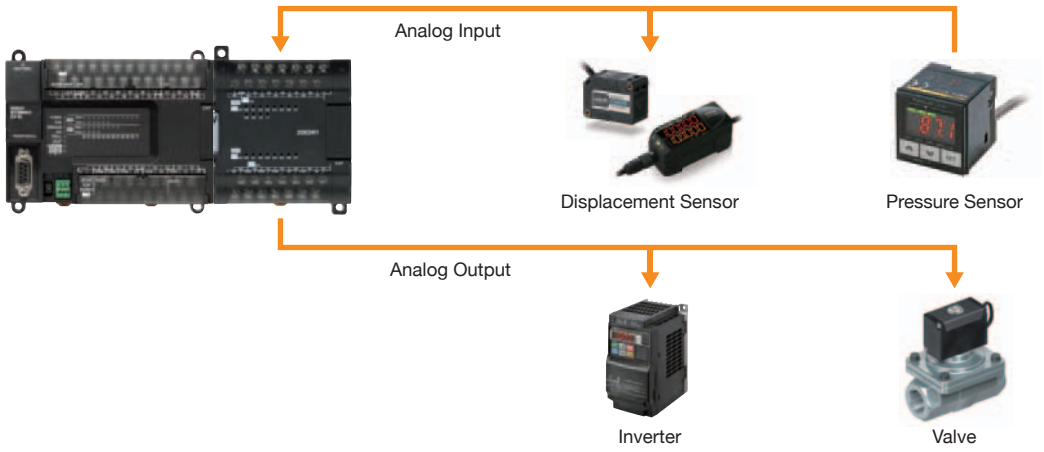
Specify Inverter speeds via RS-485



Efficient and Effective

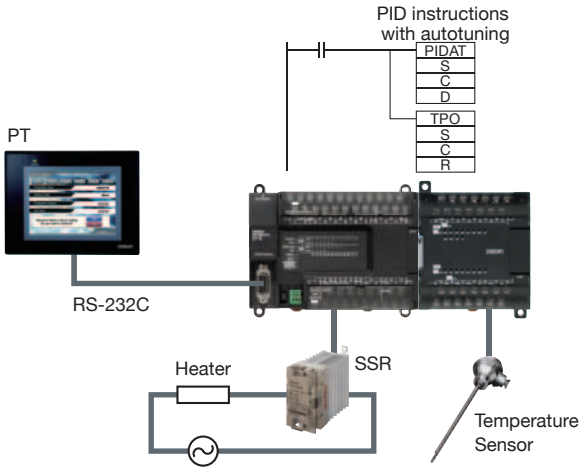
Analog I/O Control

High-accuracy analog I/O control with a resolution 1/12,000.
You can add up to 4 analog I/O by mounting an Analog Option Board and up to 24 analog I/O by connecting Expansion Units.

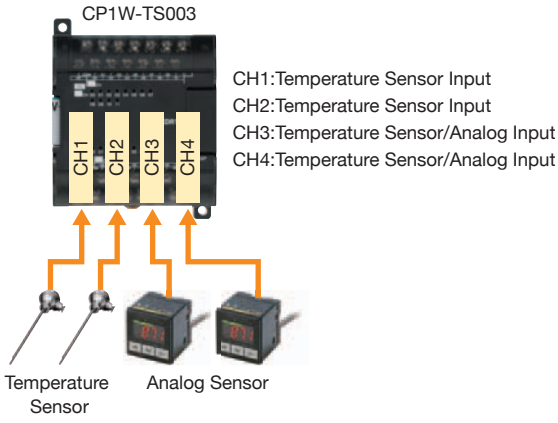


Temperature Control

The combination of the Temperature Input Unit with the PID instructions enables temperature control.
Up to 12 thermocouple inputs per Unit for CP1W-TS004.

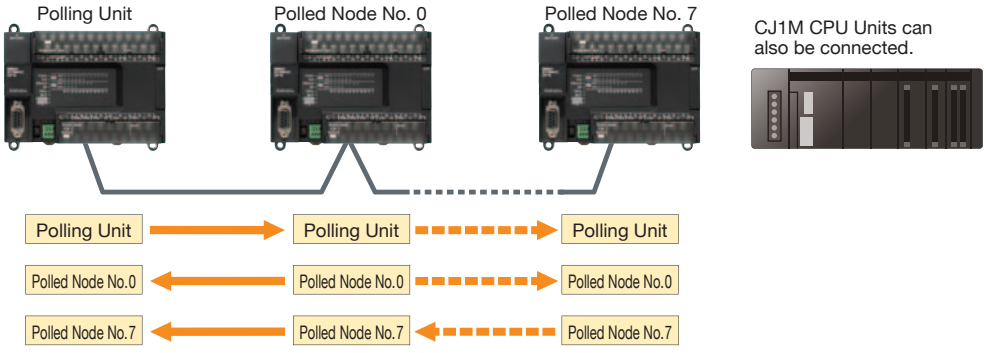


The CP1W-TS003 has two inputs that can be used for temperature sensor or analog inputs.
Both temperature sensor and analog inputs can be achieved with only one Unit.



Serial PLC Links

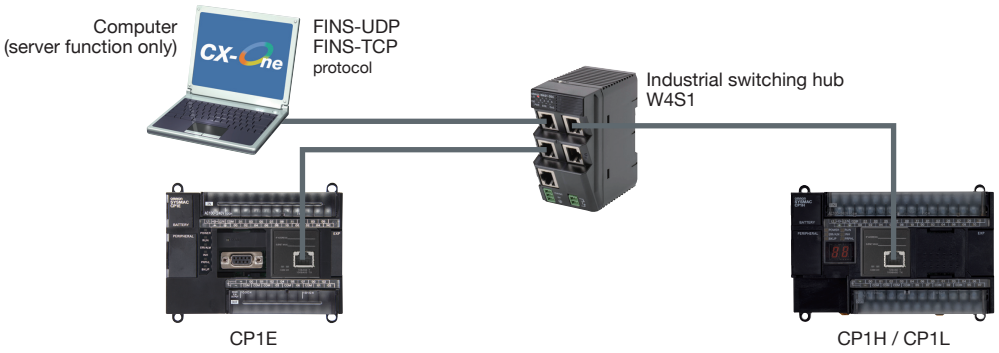
Link data with up to 10 words between up to nine CP1E-N CPU Units when controlling a device with multiple CP1E-N PLCs.



**Flexibly handle even small-scale systems.
Various Option Units available for
increased expandability.**

Ethernet Communications

Mount a CP1W-CIF41 Ethernet Option Board to an option board slot on the CP1E-N/NA type CPU Unit.
Perform monitoring and programming with CX-Programmer,or communicate with a host computer via Ethernet.(server function only)



Optional units for more flexibility

An option board for an additional Serial or Ethernet communication port can be added to the N30/40/60 and NA20 CPU Unit. Three expansion units are available. * The Option Board cannot be mounted to the CP1E-N□□S/N□□S1.

N30/40/60, NA20 CPU unit

Option Board

RS-232C Option Board
CP1W-CIF01

RS-422A/485 Option Board
CP1W-CIF11
(Maximum transmission distance: 50m)

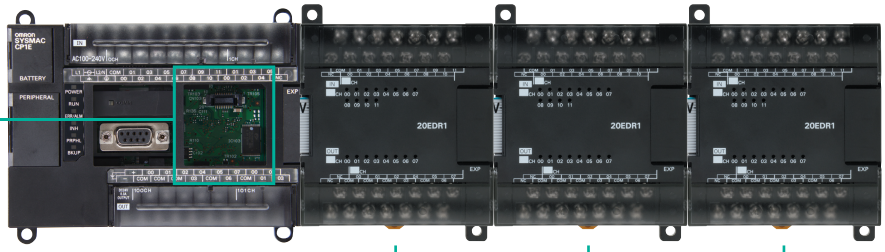
RS-422A/485 Option Board
(Isolated-type)
CP1W-CIF12-V1
(Maximum transmission distance: 500m)

Ethernet Option Board
CP1W-CIF41
(CP1E PLCs are supported by CP1W-CIF41 version 2.0 or later.)

NEW
Analog Input Option Board
CP1W-ADB21
(For CPU Unit version 1.2 or later)

NEW
Analog Output Option Board
CP1W-DAB21V
(For CPU Unit version 1.2 or later)

NEW
Analog I/O Option Board
CP1W-MAB221
(For CPU Unit version 1.2 or later)



30/40/60, NA20 CPU unit

Expansion Units and Expansion I/O Units

Expansion I/O Units

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 Units

Analog I/O Unit
CP1W-MAD11
CP1W-MAD42 NEW
CP1W-MAD44 NEW

Analog Input Unit
CP1W-AD041
CP1W-AD042 NEW

Analog Output Unit
CP1W-DA021
CP1W-DA041
CP1W-DA042 NEW

Temperature Sensor Units

Temperature Sensor Units (Thermocouples)
CP1W-TS001
CP1W-TS002
CP1W-TS003 NEW
CP1W-TS004 NEW

Temperature Sensor Units (Platinum Resistance Thermometers)
CP1W-TS101
CP1W-TS102

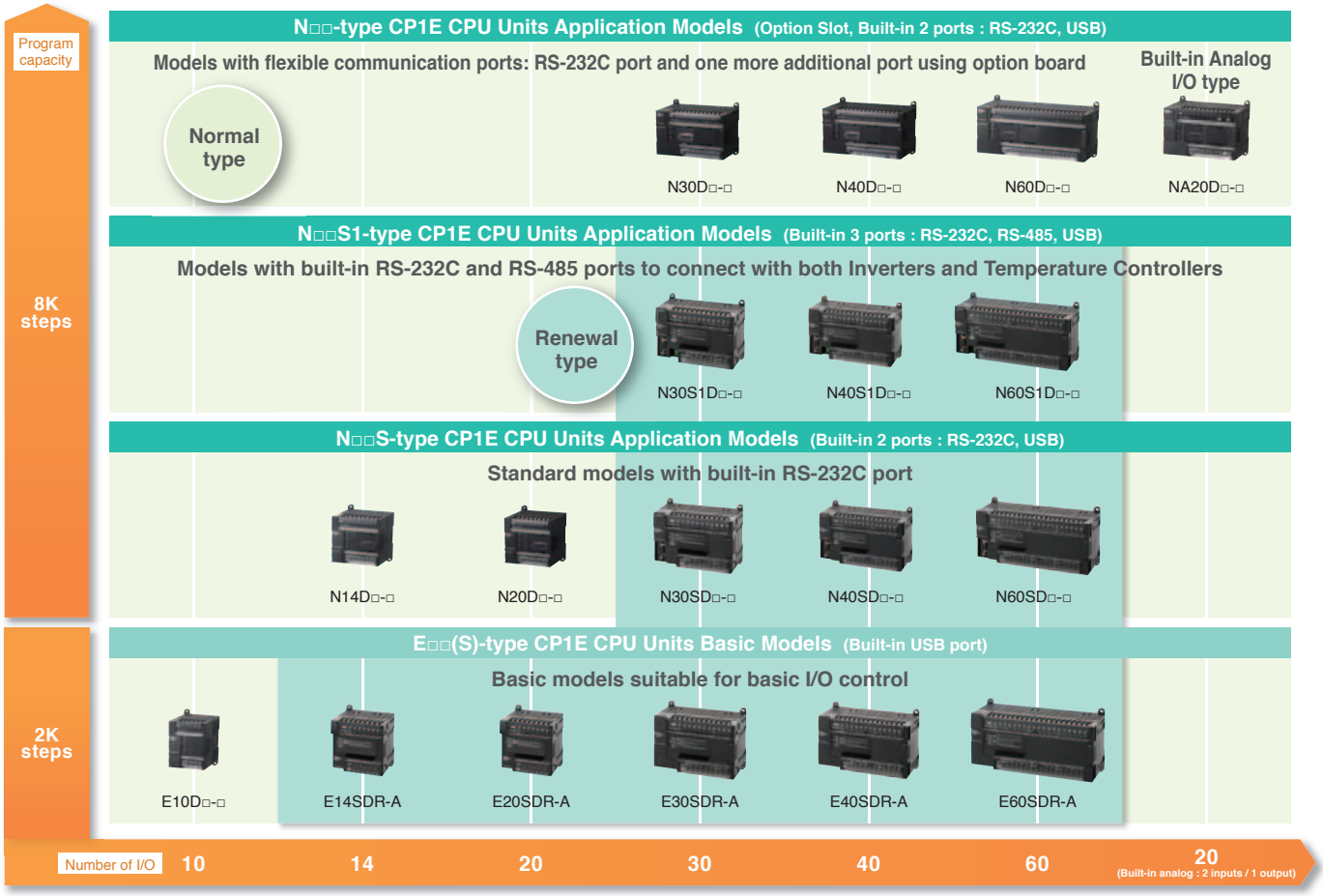
CompoBus/S I/O Link Unit

CompoBus/S Slave
CP1W-SRT21

Line up/Variation

Selecting the best CPU Unit for your system helps minimize and optimize costs.

Line up



Basic Models

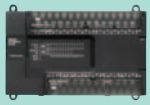
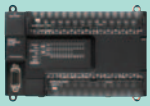
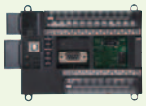
	E□□ CPU Unit				E□□S CPU Unit			
	Relay outputs		Transistor outputs (sinking/sourcing)		Relay outputs		Transistor outputs (sinking/sourcing)	
Power supply	AC	DC	AC	DC	AC	DC	AC	DC
10 I/O points	●	●	●	●	–	–	–	–
14 I/O points	●	–	–	–	●	–	–	–
20 I/O points	●	–	–	–	●	–	–	–
30 I/O points	●	–	–	–	●	–	–	–
40 I/O points	●	–	–	–	●	–	–	–
60 I/O points	–	–	–	–	●	–	–	–

Application Models

	N□□ CPU Unit RS-232C+1 option slot*				N□□S CPU Unit Built-in RS-232C				N□□S1 CPU Unit Built-in RS-232C+RS-485			
	Relay outputs		Transistor outputs (sinking/sourcing)		Relay outputs		Transistor outputs (sinking/sourcing)		Relay outputs		Transistor outputs (sinking/sourcing)	
Power supply	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
10 I/O points	–	–	–	–	–	–	–	–	–	–	–	–
14 I/O points	●	●	●	●	–	–	–	–	–	–	–	–
20 I/O points	●	●	●	●	–	–	–	–	–	–	–	–
30 I/O points	●	●	●	●	●	–	–	●	●	–	–	●
40 I/O points	●	●	●	●	●	–	–	●	●	–	–	●
60 I/O points	●	●	●	●	●	–	–	●	●	–	–	●
20 I/O points (Built-in Analog)	●	–	–	●	–	–	–	–	–	–	–	–

* Only N30/40/60 has option slot.

Variation

	Basic Models		Application Models			
	Renewal type	Normal type	Renewal type		Normal type	Normal type (Built-in Analog)
Model	E□□S 	E□□ 	N□□S 	N□□S1 	N□□ 	NA20 
Program capacity	2K steps	2K steps	8K steps	8K steps	8K steps	8K steps
DM Area capacity	2K words	2K words	8K words	8K words	8K words	8K words
USB port	USB	USB	USB	USB	USB	USB
Built-in Serial port	—	—	RS-232C	RS-232C RS-485	RS-232C	RS-232C
Option Board *1	—	—	—	—	RS-232C RS-422A RS-485 Ether net Analog	RS-232C RS-422A RS-485 Ether net Analog
Battery *2 (Optional)	—	—	Battery	Battery	Battery	Battery
Clock	—	—	Clock	Clock	Clock	Clock
High-speed counters (Single-phase)	10kHz ×6	10kHz ×6	100kHz ×2 10kHz ×4	100kHz ×2 10kHz ×4	100kHz ×2 10kHz ×4	100kHz ×2 10kHz ×4
High-speed counters (Differential Phase)	5kHz ×2	5kHz ×2	50kHz ×1 5kHz ×1	50kHz ×1 5kHz ×1	50kHz ×1 5kHz ×1	50kHz ×1 5kHz ×1
Pulse outputs (transistor output type)	—	—	100kHz ×2	100kHz ×2	100kHz ×2	100kHz ×2
Analog adjusters	—	Analog adjusters	—	—	Analog adjusters	Analog adjusters
Built-in analog	—	—	—	—	—	AD 2 DA 1

*1. For CP1E N30/40/60 or NA20 CPU Units only.

*2. The CP1W-BAT01 Battery (sold separately) can be mounted

Ordering information

International Standards

- The standards are abbreviated as follows: U: UL, U1: UL(Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, KC: KC Registration, and CE: EU Directives.
- Contact your OMRON representative for further details and applicable conditions for these standards.

Application models

■Renewal type (N□□S1-type) CP1E CPU Units: Built-in 3 ports

Product name	Specifications						Model	Standards
	Power Supply	Inputs	Outputs	Output type	Program capacity	Data memory capacity		
N□□S1-type with 30 I/O Points	100 to 240 VAC	18	12	Relay	8K steps	8K words	**CP1E-N30S1DR-A**	CE, KC
	24VDC			Transistor (sinking)			**CP1E-N30S1DT-D**	
				Transistor (sourcing)			**CP1E-N30S1DT1-D**	
N□□S1-type with 40 I/O Points	100 to 240 VAC	24	16	Relay			**CP1E-N40S1DR-A**	
	24VDC			Transistor (sinking)			**CP1E-N40S1DT-D**	
				Transistor (sourcing)			**CP1E-N40S1DT1-D**	
N□□S1-type with 60 I/O Points	100 to 240 VAC	36	24	Relay			**CP1E-N60S1DR-A**	
	24VDC			Transistor (sinking)			**CP1E-N60S1DT-D**	
				Transistor (sourcing)			**CP1E-N60S1DT1-D**	

■Renewal type (N□□S-type) CP1E CPU Units: Built-in 2 ports

Product name	Specifications						Model	Standards
	Power Supply	Inputs	Outputs	Output type	Program capacity	Data memory capacity		
N□□S-type with 30 I/O Points	100 to 240 VAC	18	12	Relay	8K steps	8K words	**CP1E-N30SDR-A**	CE
	24VDC			Transistor (sinking)			**CP1E-N30SDT-D**	
				Transistor (sourcing)			**CP1E-N30SDT1-D**	
N□□S-type with 40 I/O Points	100 to 240 VAC	24	16	Relay			**CP1E-N40SDR-A**	
	24VDC			Transistor (sinking)			**CP1E-N40SDT-D**	
				Transistor (sourcing)			**CP1E-N40SDT1-D**	
N□□S-type with 60 I/O Points	100 to 240 VAC	36	24	Relay			**CP1E-N60SDR-A**	
	24VDC			Transistor (sinking)			**CP1E-N60SDT-D**	
				Transistor (sourcing)			**CP1E-N60SDT1-D**	

■Normal type (N/NA□□-type) CP1E CPU Units

Product name	Specifications						Model	Standards
	Power Supply	Inputs	Outputs	Output type	Program capacity	Data memory capacity		
N□□-type with 14 I/O Points	100 to 240 VAC	8	6	Relay	8K steps	8K words	**CP1E-N14DR-A**	UC1, N, L, CE, KC
				Transistor (sinking)			**CP1E-N14DT-A**	
				Transistor (sourcing)			**CP1E-N14DT1-A**	
	24VDC			Relay			**CP1E-N14DR-D**	
				Transistor (sinking)			**CP1E-N14DT-D**	
				Transistor (sourcing)			**CP1E-N14DT1-D**	
N□□-type with 20 I/O Points	100 to 240 VAC	12	8	Relay			**CP1E-N20DR-A**	
				Transistor (sinking)			**CP1E-N20DT-A**	
				Transistor (sourcing)			**CP1E-N20DT1-A**	
	24VDC			Relay			**CP1E-N20DR-D**	
				Transistor (sinking)			**CP1E-N20DT-D**	
				Transistor (sourcing)			**CP1E-N20DT1-D**	
N□□-type with 30 I/O Points	100 to 240 VAC	18	12	Relay			**CP1E-N30DR-A**	
				Transistor (sinking)			**CP1E-N30DT-A**	
				Transistor (sourcing)			**CP1E-N30DT1-A**	
	24VDC			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			**CP1E-N40DR-A**	
				Transistor (sinking)			**CP1E-N40DT-A**	
				Transistor (sourcing)			**CP1E-N40DT1-A**	
	24VDC			Relay			**CP1E-N40DR-D**	
				Transistor (sinking)			**CP1E-N40DT-D**	
				Transistor (sourcing)			**CP1E-N40DT1-D**	
N□□-type with 60 I/O Points	100 to 240 VAC	36	24	Relay			**CP1E-N60DR-A**	
				Transistor (sinking)			**CP1E-N60DT-A**	
				Transistor (sourcing)			**CP1E-N60DT1-A**	
	24VDC			Relay			**CP1E-N60DR-D**	
				Transistor (sinking)			**CP1E-N60DT-D**	
				Transistor (sourcing)			**CP1E-N60DT1-D**	
NA-type with 20 I/O Points (Billt-in analog)	100 to 240 VAC	12 (Built-in analog inputs : 2)	8 (Built-in analog outputs : 1)	Relay	8K steps	8K words	**CP1E-NA20DR-A**	
	24VDC			Transistor (sinking)			**CP1E-NA20DT-D**	
				Transistor (sourcing)			**CP1E-NA20DT1-D**	

Basic models

■Renewal type (E□□S-type) CP1E CPU Units

Product name	Specifications						Model	Standards
	Power Supply	Inputs	Outputs	Output type	Program capacity	Data memory capacity		
E□□S-type with 14 I/O Points	100 to 240 VAC	8	6	Relay	2K steps	2K words	**CP1E-E14SDR-A**	CE, KC
E□□S-type with 20 I/O Points		12	8	Relay			**CP1E-E20SDR-A**	
E□□S-type with 30 I/O Points		18	12	Relay			**CP1E-E30SDR-A**	
E□□S-type with 40 I/O Points		24	16	Relay			**CP1E-E40SDR-A**	
E□□S-type with 60 I/O Points		36	24	Relay			**CP1E-E60SDR-A**	

■Normal type (E□□-type) CP1E CPU Units

Product name	Specifications						Model	Standards
	Power Supply	Inputs	Outputs	Output type	Program capacity	Data memory capacity		
E□□-type with 10 I/O Points	100 to 240 VAC	6	4	Relay	2K steps	2K words	**CP1E-E10DR-A**	UC1, N, L, CE, KC
				Transistor (sinking)			**CP1E-E10DT-A**	
				Transistor (sourcing)			**CP1E-E10DT1-A**	
	24VDC			Relay			**CP1E-E10DR-D**	
				Transistor (sinking)			**CP1E-E10DT-D**	
				Transistor (sourcing)			**CP1E-E10DT1-D**	
E□□-type with 14 I/O Points	100 to 240 VAC	8	6	Relay			**CP1E-E14DR-A**	
E□□-type with 20 I/O Points		12	8	Relay			**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**	

Optional Products

■Battery Set

Product name	Specifications	Model	Standards
Battery Set	For N□□/NA-type CP1E CPU Units Note: Mount a Battery to an N□□/NA-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.)	**CP1W-BAT01**	–

■Option Boards (for CP1E N30/40/60 or NA20 CPU Units)

Product name	Specifications	Model	Standards
RS-232C Option Board	One RS-232C Option Board can be mounted to the Option Board slot.	**CP1W-CIF01**	UC1, N, L, CE, KC
RS-422A/485 Option Board	One RS-422A/485 Option Board can be mounted to the Option Board slot.	**CP1W-CIF11**	
RS-422A/485 Isolated-type Option Board	One RS-422A/485 Option Board can be mounted to the Option Board slot.	**CP1W-CIF12-V1**	
Ethernet Option Board	One Ethernet Option Board can be mounted to the Option Board slot. CP1E CPU Units are supported by CP1W-CIF41 version 2.0 or later. When using CP1W-CIF41, CX-Programmer version 9.12 or higher is required.	**CP1W-CIF41**	
Analog Input Option Board	Can be mounted in CPU Unit Option Board slot. 2 analog inputs. 0-10V(Resolution:1/4000), 0-20mA (Resolution:1/2000).	**CP1W-ADB21***	
Analog Output Option Board	Can be mounted in CPU Unit Option Board slot. 2 analog outputs. 0-10V (Resolution:1/4000).	**CP1W-DAB21V***	
Analog I/O Option Board	Can be mounted in CPU Unit Option Board slot. 2 analog inputs. 0-10V(Resolution:1/4000), 0-20mA(Resolution:1/2000). 2 analog outputs. 0-10V (Resolution:1/4000).	**CP1W-MAB221***	

Note: It is not possible to use a CP-series Ethernet Option Board version 1.0 (CP1W-CIF41), LCD Option Board (CP1W-DAM01), or Memory Card (CP1W-ME05M) with a CP1E CPU Unit.
*. For CP1E CPU Unit version 1.2 or later

Ordering information

Optional Products

■Expansion I/O Units and Expansion Units (for CP1E N30/40/60 or NA20 CPU Units)

Unit type	Product name	Inputs	Outputs	Specifications		Model	Standards
CP1W Expansion I/O Units	Input Unit	8	—	DC24V Input		**CP1W-8ED**	U, C, N, L, CE, KC
	Output Units	—	8	Relay		**CP1W-8ER**	
				Transistor(sinking)		**CP1W-8ET**	
				Transistor(sourcing)		**CP1W-8ET1**	
		—	16	Relay		**CP1W-16ER**	N, L, CE, KC
				Transistor(sinking)		**CP1W-16ET**	
				Transistor(sourcing)		**CP1W-16ET1**	
		—	32	Relay		**CP1W-32ER**	
				Transistor(sinking)		**CP1W-32ET**	
				Transistor(sourcing)		**CP1W-32ET1**	
	I/O Units	12	8	Relay		**CP1W-20EDR1**	U, C, N, L, CE, KC
				Transistor(sinking)		**CP1W-20EDT**	
				Transistor(sourcing)		**CP1W-20EDT1**	
		24	16	Relay		**CP1W-40EDR**	N, L, CE, KC
				Transistor(sinking)		**CP1W-40EDT**	
				Transistor(sourcing)		**CP1W-40EDT1**	
CP1W Expansion Units	Analog Input Unit	4CH	—	Input range: 0 to 5 V, 1 to 5 V, 0 to 10 V, ±10 V, 0 to 20 mA, or 4 to 20 mA.	Resolution: 1/6000	**CP1W-AD041**	UC1, N, L, CE, KC
					Resolution: 1/12000	**CP1W-AD042**	UC1, N, CE, KC
	Analog Output Unit	—	2CH	Output range: 1 to 5 V, 0 to 10 V, ±10 V, 0 to 20 mA, or 4 to 20 mA.	Resolution: 1/6000	**CP1W-DA021**	UC1, N, L, CE, KC
		—	4CH		Resolution: 1/6000	**CP1W-DA041**	
					Resolution: 1/12000	**CP1W-DA042**	UC1, N, CE, KC
	Analog I/O Unit	2CH	1CH	Input range: 0 to 5 V, 1 to 5 V, 0 to 10 V, ±10 V, 0 to 20 mA, or 4 to 20 mA.	Resolution: 1/6000	**CP1W-MAD11**	UC1, N, L, CE, KC
		4CH	2CH	Output range: 1 to 5 V, 0 to 10 V, ±10 V, 0 to 20 mA, or 4 to 20 mA.	Resolution: 1/12000	**CP1W-MAD42**	UC1, N, CE, KC
		4CH	4CH		Resolution: 1/12000	**CP1W-MAD44**	
	Temperature Sensor Unit	2CH	—	Sensor type: Thermocouple (J or K)		**CP1W-TS001**	UC1, N, L, CE, KC
		4CH	—	Sensor type: Thermocouple (J or K)		**CP1W-TS002**	
		2CH	—	Sensor type: Platinum resistance thermometer (Pt100 or JPt100)		**CP1W-TS101**	
		4CH	—	Sensor type: Platinum resistance thermometer (Pt100 or JPt100)		**CP1W-TS102**	
		4CH	—	Sensor type: Thermocouple (J or K) 2 analog inputs* Input range: 1 to 5 V, 0 to 10 V, 4 to 20 mA.	Resolution: 1/12000	**CP1W-TS003**	UC1, N, CE, KC
		12CH	—	Sensor type: Thermocouple (J or K)		**CP1W-TS004**	
	CompoBus/S I/O Link Unit	8	8	CompoBus/S slave		**CP1W-SRT21**	UC1, N, L, CE, KC
I/O Connecting Cable		80 cm (for CP1W Expansion I/O Units and Expansion Units) Only one I/O Connecting Cable can be used in each PLC.				**CP1W-CN811**	UC1, N, L, CE

Note: An I/O Connecting Cable (approx. 6 cm) for horizontal connection is provided with CP1W Expansion I/O Units and Expansion Units.
* Only last two channels can be used as analog input.

Programming Devices

■Support Software

Product name	Specifications	Number of licenses	Media	Model	Standards
FA Integrated Tool Package CX-One Lite Ver.4.□	CX-One Lite is a subset of the complete CX-One package that provides only the Support Software required for micro PLC applications. CX-One Lite runs on the following OS. OS: Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version) CX-One Lite Ver. 4.□ includes Micro PLC Edition CXProgrammer Ver.9.□.	1 license	DVD	**CXONE-LT01D-V4**	—
FA Integrated Tool Package CX-One Ver.4.□	CX-One is a comprehensive software package that integrates Support Software for OMRON PLCs and components. CX-One runs on the following OS. OS: Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version) CX-One Ver. 4.□ includes CX-Programmer Ver. 9.□.	1 license *	DVD	**CXONE-AL01D-V4**	—

Note: 1.CP1E-E60SDR-A CPU Units are supported by CX-Programmer version 9.42 or higher. When Micro PLC Edition CX-Programmer is used, you need version 9.42 or higher.
The E20/30/40(S), N20/30/40(S□) CPU Units are supported by CX-Programmer version 8.2 or higher.
The E10/14(S), N14/60(S□), and NA20 CPU Units are supported by CX-Programmer version 9.03 or higher.
When Micro PLC Edition CX-Programmer is used, you need version 9.03 or higher.
2.When using CP1W-CIF41, CX-Programmer version 9. π12 or higher is required. N30/40/60, NA20 only.
3.The CX-One and CX-One Lite cannot be simultaneously installed on the same computer.

* Multi licenses (3, 10, 30, or 50 licenses) and DVD media without licenses are also available for the CX-One.

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