

**Product Discontinuation**

Programable controller



**CP1L-L\***  
**CP1L-J\***



**Recommended Replacement**

Programable controller

**CP1L-EL20\***  
**CP2E-E\***  
**CP2E-N\***

**[ Final order entry date ]**

The end of March, 2027.

**[ Date of The Last Shipping ]**

The end of September, 2027.

**[ Scheduled date of maintenance close ]**

The end of March, 2034

**[ Caution on recommended replacement ]**

- The external dimensions, wiring connections, mounting dimensions, rated performance, operating characteristics, and operating methods vary depending on the configuration, functions, and instructions used. Please refer to the manuals for each unit to confirm differences in specifications.
- The program conversion from CP1L-L□ to CP1L-EL□ or CP2E-□ can be performed by changing the device type in CX-Programmer. After conversion, check the error and warning reports, and modify the program as required.
- “CP1L to CP2E Replacement Guide” (Manual No. P177) is available.  
Please use this guide when replacing CP1L with CP2E.

**[ Difference from discontinued product ]**

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
CP1L-EL20*	**	--	--	--	--	--	--
CP2E-E*	**	--	--	--	--	--	--
CP2E-N*	**	--	--	--	--	--	--

- \*\* : Compatible
- \* : The change is a little/Almost compatible
- : Not compatible
- : No corresponding specification





[ Product Discontinuation and recommended replacement ]




















































Product discontinuation	Recommended replacement		
CP1L-L10DR-A	-	CP2E-E14DR-A	CP2E-N14DR-A
CP1L-L10DR-D	CP1L-EL20DR-D	-	CP2E-N14DR-D
CP1L-L10DT-A	-	-	CP2E-N14DT-A
CP1L-L10DT-D	CP1L-EL20DT-D	-	CP2E-N14DT-D
CP1L-L10DT1-D	CP1L-EL20DT1-D	-	CP2E-N14DT1-D
CP1L-L14DR-A	-	CP2E-E14DR-A	CP2E-N14DR-A
CP1L-L14DR-D	CP1L-EL20DR-D	-	CP2E-N14DR-D
CP1L-L14DT-A	-	-	CP2E-N14DT-A
CP1L-L14DT-D	CP1L-EL20DT-D	-	CP2E-N14DT-D
CP1L-L14DT1-D	CP1L-EL20DT1-D	-	CP2E-N14DT1-D
CP1L-L20DR-A	-	CP2E-E20DR-A	CP2E-N20DR-A
CP1L-L20DR-D	CP1L-EL20DR-D	-	CP2E-N20DR-D
CP1L-L20DT-A	-	-	CP2E-N20DT-A
CP1L-L20DT-D	CP1L-EL20DT-D	-	CP2E-N20DT-D
CP1L-L20DT1-D	CP1L-EL20DT1-D	-	CP2E-N20DT1-D
CP1L-J14DR-A	-	CP2E-E14DR-A	CP2E-N14DR-A
CP1L-J14DR-D	-	-	CP2E-N14DR-D
CP1L-J14DT1-D	-	-	CP2E-N14DT1-D
CP1L-J20DR-A	-	CP2E-E20DR-A	CP2E-N20DR-A
CP1L-J20DR-D	-	-	CP2E-N20DR-D
CP1L-J20DT1-D	-	-	CP2E-N20DT1-D

[ Dimensions ]

Product discontinuation Model CP1L-L*			Recommendable replacement Model CP1L-EL20*/CP2E-E*/CP2E-N*		
Type	IO points	Dimensions (W x H x D) mm	IO points	Dimensions (W x H x D) mm	
				CP1L-EL*	CP2E-E*/CP2E-N*
CP1L-*10*	10 points	66x90x85	10 points	-	-
CP1L-*14*	14 points	86x90x85	14 points	-	86x90x80
CP1L-*20*	20 points	86x90x85	20 points	130x90x85	86x90x80
			<p><b>Differences CP1L-EL20*</b> When replacing the 10-point type of the CP1L-L*, the width is increased by 64mm. When replacing the CP1L-L* 14-point and 20-point types, the width is increased by 44mm.</p> <p><b>Differences between CP2E-N*/CP2E-E*</b> When replacing the 10-point type of the CP1L-L*, the width is increased by 20 mm.</p>		

[ Wire connection ]

Product discontinuation CP1L-L*	Recommendable replacement CP1L-EL20*	Recommendable replacement CP2E-E*	Recommendable replacement CP2E-N*
<b>CX-Programmer connection port</b>			
			
USB port	Ethernet port *No USB port.	USB port	Ethernet port *No USB port.

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[ Characteristics ]

Item	Product discontinuation CP1L-L*	Recommendable replacement CP1L-EL20*	Recommendable replacement CP2E-E14*/E20*	Recommendable replacement CP2E-N14*/N20*
Program capacity	5K Steps		4K Steps	10K Steps
FB Program Area	None	5K Steps	4K Steps	10K Steps
Programming Language	Ladder diagram		Ladder diagram	
Function Blocks	Maximum number of function block definitions: 128 Maximum number of instances: 256		Maximum number of function block definitions: 64 Maximum number of instances: 128	
Command Type	Approximately 500 types		Approx. 220 types	
Instruction execution time	LD : 0.55μs MOV: 4.1μs		LD : 0.23μs MOV: 1.76μs	
Number of tasks	288 Pieces • 32 cycle execution tasks • 256 interrupt tasks		17 Pieces • 1 cycle execution task • 16 interrupt tasks	
Subroutine Number Max.	256		128	
Jump Number Max.	256		128	
Scheduled interrupt function	1		1	
Channels I/O(CIO)	98304 bits (6144CH) 0.00 to 6143.15 (0 to 6143CH)		4640 bits (290CH) 0.00 to 289.15 (0 ~ 289CH)	
Work Area[W]	8192 bits (512CH) W0.00 to W511.15 (W0 to W511CH)		2048 bits (128CH) W0.00 to W127.15 (W0 ~ W127CH)	
Holding Area [H]	8192 bits (512CH) H0.00 to H511.15 (H0 to H511CH)		2048 bits (128CH) H0.00 to H127.15 (H0 to H127CH)	
Auxiliary Area [A]	Readable/Unwritable: 7168 bits (448CH) A0 to A447CH Readable/Unwritable: 8192 bits (512CH) A448 to A959CH		Readable/Unwritable: 7168 bits (448CH) A0 to A447CH Readable/Unwritable: 8192 bits (512CH) A448 to A959CH	
Temporary memory relay [TR]	16 bits TR0 to TR15		16 points TR0 to TR15	
Timer[T]	4096 bits T0 to T4095		256 bits T0 to T255	
Counter[C]	4096 bits C0 to C4095		256 bits C0 to C255	
Data Memory [D]	10K words D0 to D9999, D32000 to D32767		4K words D0 to D4095	16K words D0 to D16383
Data Registers [DR]	16 bits DR0 to DR15		16 bits DR0 to DR15	
Index Registers [IR]	16 bits IR0 to IR15		16 bits IR0 to IR15	
Task flags[TK]	32 bits TK0000 ~ TK0031		None	

Item	Product discontinuation CP1L-L*	Recommendable replacement CP1L-EL20*	Recommendable replacement CP2E-E14*/E20*	Recommendable replacement CP2E-N14*/N20*
<b>Power Supply Specifications</b>	100 to 240VAC 24VDC	24VDC	100 to 240VAC	100 to 240VAC 24VDC
<b>Operation temperature</b>	0 to 55 °C		-20 to 60°C	
<b>supplied power supply to external device</b>	Only AC power supply 200mA	None	None	
<b>Terminal Blocks</b>	Fixed		Fixed	
<b>Expansion Unit</b>	10-point type: Unable to connect 14·20-points type: Can be connected to one unit	Can be connected to one unit	Unable to connect	
<b>Front Dip Switch</b>	Yes		None	
<b>High speed counter input</b>	Incremental pulse Input 100kHz 4 points UP/Down input 100kHz 2 points Pulse + Directional Input 100kHz 2 points Differential phase input (4x) 50kHz 2 points		Incremental pulse Input 100kHz, 2points and 10kHz 4 points UP/Down input 100kHz 1 point and 10kHz 1 point Pulse + Directional Input 100kHz 2 points Differential phase input (4x) 50kHz 1 point and 5kHz 1 point	
<b>Pulse Catch Input/Interrupt</b>	10-point type: 2 14-point type: 4 20-point type: 6	6	6	14-point type: 6 20-point type: 8
<b>Input interrupt counter mode</b>	10-point type: 2 14-point type: 4 20-point type: 6	6	None	
<b>Pulse output (Transistor output type only)</b>	CCW/CW or Pulse + Direction 1 to 100kHz 2 axes		None	Pulse + Direction 1 to 100kHz 2 axes, linear interpolation
<b>PWM output (Transistor output type only)</b>	2		None	1
<b>Inverter positioning function</b>	Yes		None	
<b>Analog Volume</b>	1 (0-255)	None	None	
<b>External Analog Settings Input</b>	1 (1/256,0-10V)	None	None	
<b>Built-in analog input</b>	None	2 (1/1000, 0+10V)	None	
<b>USB port</b>	Yes	None	Yes	
<b>Ethernet ports</b>	None	Yes	None	Yes
<b>Built-in serial port</b>	None Optional board installation		RS-232C	None Optional board installation

Item	Product discontinuation CP1L-L*	Recommendable replacement CP1L-EL20*	Recommendable replacement CP2E-E14*/E20*	Recommendable replacement CP2E-N14*/N20*
<b>Serial communication transmission speed</b>	300/600/1200/2400/4800/9600/19.2k/38.4k/57.6k/115.2k		1200/2400/4800/9600/19.2k/38.4k/57.6k/115.2k	
<b>Supported Protocols</b>	<ul style="list-style-type: none"> <li>· Host links</li> <li>· Tool Bus</li> <li>· NT Link (1:N)</li> <li>· NT Link (1:1)</li> <li>· 1:1 Links</li> <li>· No protocol</li> <li>· Serial Gateway</li> <li>· Serial PLC link</li> <li>· Modbus-RTU Simple Master</li> <li>· CompoWay/F</li> </ul>		<ul style="list-style-type: none"> <li>· Host links</li> <li>· NT Link (1:N)</li> <li>· No procedure</li> <li>· Serial PLC link</li> <li>· Modbus-RTU Simple Master</li> <li>· Modbus-RTU slave</li> </ul>	
<b>Number of Mountable Options</b>	10-point type: None 14-point type: 1 20-point type: 1	1	None	1
<b>Option Board Communication board</b>	RS-232C CP1W-CIF01 ·RS-422A/485 CP1W-CIF11 CP1W-CIF12-V1 ·Ethernet CP1W-CIF41	RS-232C CP1W-CIF01 ·RS-422A/485 CP1W-CIF11 CP1W-CIF12-V1	None	RS-232C CP1W-CIF01 ·RS-422A/485 CP1W-CIF11 CP1W-CIF12-V1 ·RS-232C&RS-232C CP2W-CIFD1 ·RS-232C&RS-485 CP2W-CIFD2 ·RS-485&RS-485 CP2W-CIFD3
<b>Option Board Analog Board</b>	None	CP1W-ADB21 CP1W-DAB21V CP1W-MAB221	None	CP1W-ADB21 CP1W-DAB21V CP1W-MAB221
<b>Option Board LCD Board</b>	CP1W-DAM01		None	
<b>Memory Cassette</b>	CP1W-ME05M		None	
<b>Memory backup</b>	Built-in Flash Memory: Including user programs, parameter areas, and data memory initials/comments  Backing up with built-in battery: DM/HR/CNT/AR Area		Built-in Flash Memory: Including user programs, parameter areas, and data memory initials/comments  Built-in non-volatile memory (Battery less backup): DM/HR/CNT/AR Area	
<b>Battery</b>	CJ1W-BAT01 Back up DM/HR/CNT/AR area and clock		None	CP2W-BAT02 Back up clock
<b>Tracing Function</b>	Yes		None	
<b>Clock</b>	Yes		None	Yes

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.