KWOCO AUTOMATION CO., LTD

New & Original Industrial Automation Products

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OMRON PRODUCT NEWS

Product Discontinuation Notices

CP1L-L / CP1L-J Series

Recommended Replacement to CP1L-EL20 / CP2E Series

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TRUSTED QUALITY
Original & Reliable

SMOOTH UPGRADE
Efficient Migration

GLOBAL SUPPORT
Ready Stock & Logistics

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PRODUCT NEWS

Product Discontinuation Notices

Issue Date
March 1, 2026

Product Discontinuation	Recommended Replacement
Programable controller	Programable controller
CP1L-L*	**CP1L-EL20***
CP1L-J*	**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	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
CP1L-EL20*	**	--	--	--	--	--	--
CP2E-E*	**	--	--	--	--	--	--
CP2E-N*	**	--	--	--	--	--	--

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

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[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*

Type	IO points	Dimensions (W x H x D) mm
CP1L-*10*	10 points	66x90x85
CP1L-*14*	14 points	86x90x85
CP1L-*20*	20 points	86x90x85

Recommendable replacement
Model CP1L-EL20*/CP2E-E*/CP2E-N*

IO points	Dimensions (W x H x D) mm	
	CP1L-EL*	CP2E-E*/CP2E-N*
10 points	-	-
14 points	-	86x90x80
20 points	130x90x85	86x90x80

Differences CP1L-EL20*

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.

Differences between CP2E-N*/CP2E-E*

When replacing the 10-point type of the CP1L-*, the width is increased by 20 mm.

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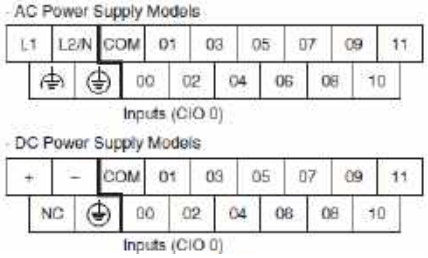
[Wire connection]

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

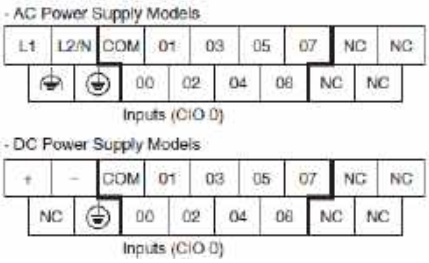
Product discontinuation CP1L-L*

Input wiring CP1L-L*

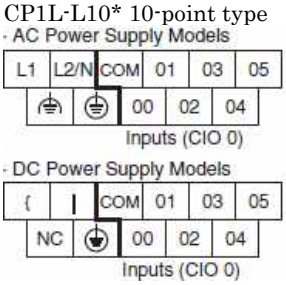
CP1L-L20* 20-point type



CP1L-L14* 14-point type



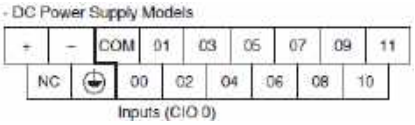
CP1L-L10* 10-point type



Recommendable replacement CP1L-EL20*/CP2E-E*/CP2E-N*

Input wiring CP1L-EL20*

The terminal arrangement is the same as the CP1L-L20 DC power supply type

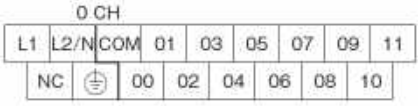


Input wiring CP2E-E*/CP2E-N*

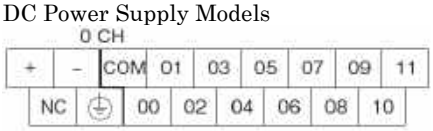
If you are using a high-speed counter, you will need to change the wiring because the function assignment of the contacts is different.

CP2E-* 20-point type

· AC Power Supply Models

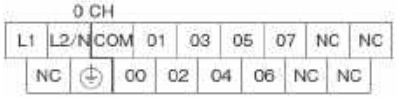


DC Power Supply Models

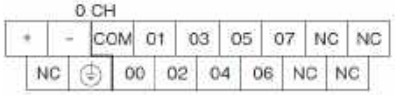


CP2E 14-point type

· AC Power Supply Models



DC Power Supply Models



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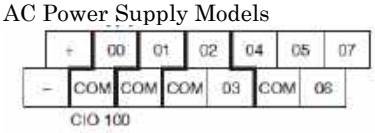
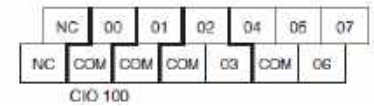
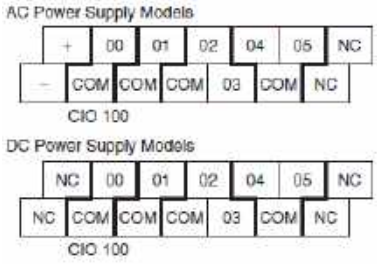
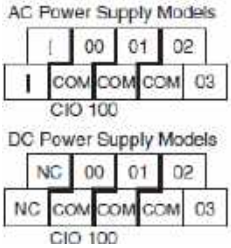
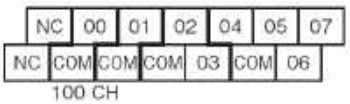
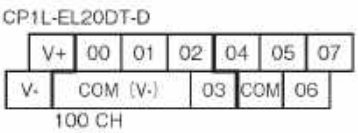
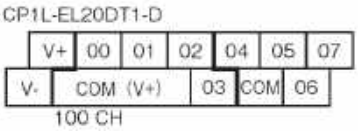
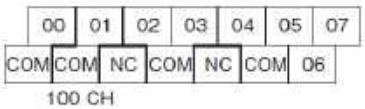
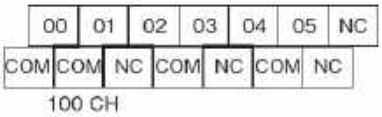
Product discontinuation CP1L-L*	Recommendable replacement CP1L-EL20*/CP2E-E*/CP2E-N*
Output wiring CP1L-L* CP1L-L20* 20-point type AC Power Supply Models  DC Power Supply Models  CP1L-L14* 14-point type  CP1L-L10* 10-point type  	**Output wiring CP1L-EL20*** The CP1EL20DR-D is identical to the terminal arrangement of the CP1L-L20□ DC power supply type. CP1EL20DR-D  The CP1L-EL20DT(1)-D must supply 24V DC from the outside when using 100CH00-bit/01-bit. CP1L-EL20DT-D  CP1L-EL20DT1-D  **Output wiring CP2E-E*/CP2E-N*** CP1L-L is a partial sequence. If you are using a pulse output, you will need to change the wiring because the contact function assignment is different. CP2E-* 20-point type ・AC and DC Power Supply Modeles  CP2E-* 14-point type ・AC and DC Power Supply Modeles 

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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	

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

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Item	Product discontinuation CP1L-L*	Recommendable replacement CP1L-EL20*	Recommendable replacement CP2E-E14*/E20*	Recommendable replacement CP2E-N14*/N20*
Serial communication transmission speed	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	
Supported Protocols	· Host links · Tool Bus · NT Link (1:N) · NT Link (1:1) · 1:1 Links · No protocol ·Serial Gateway · Serial PLC link · Modbus-RTU Simple Master · CompoWay/F		· Host links · NT Link (1:N) · No procedure · Serial PLC link · Modbus-RTU Simple Master · Modbus-RTU slave	
Number of Mountable Options	10-point type: None 14-point type: 1 20-point type: 1	1	None	1
Option Board Communication board	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
Option Board Analog Board	None	CP1W-ADB21 CP1W-DAB21V CP1W-MAB221	None	CP1W-ADB21 CP1W-DAB21V CP1W-MAB221
Option Board LCD Board	CP1W-DAM01		None	
Memory Cassette	CP1W-ME05M		None	
Memory backup	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	
Battery	CJ1W-BAT01 Back up DM/HR/CNT/AR area and clock		None	CP2W-BAT02 Back up clock
Tracing Function	Yes		None	
Clock	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.

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