

Product Discontinuation Notices

ONRON
Issue Date
July 10th, 2023

20230704CE

Product Discontinuation

Recommended Replacement

Programmable Controller

Programmable Controller Machine Automation Controller



CJ1W-ADG41



CJ1W-AD042 NX-HAD401/402

[Final order entry date]

The end of March 2024

[Date of The Last Shipping]

The end of September 2024

[Scheduled date of maintenance close]

The end of March 2031

[Caution on recommended replacement]

1. For CJ1W-AD042

CJ1W-AD042 does not support some of the functions of CJ1W-ADG41. Please make sure there are no problems with the actual ladder program of the CPU Unit.

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2. NX-HAD401/402

It is necessary to configure the system which is included in the CPU Unit. For details, please refer to the NX-Series Analog I/O Units User's Manual for High-speed Analog Input Units (Cat. No. W592) and other related manuals.

[Difference from discontinued product]

[= more more more and occurrence produces]								
	Recommended replacement model	Body Color	Dimen- sions	Wire connection	Mounting dimensions	Charac- teristics	Operation ratings	Operation methods
1.	CJ1W-AD042	**	**		**	*		*
2.	NX-HAD401/402	*						

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
CJ1W-ADG41	CJ1W-AD042
	NX-HAD401
	NX-HAD402

1. Comparison with CJ1W-AD042

[Wire connection]

Product discontinuation CJ1W-ADG41				Recommended replacement 1 CJ1W-AD042 Terminal Arrangement				
Terminal Arrangement								
Input I 2+	B1	A1	Input I 1+		Current input 2 (+) *	B1	A1	Current input 1 (+) *
Input V 2+	B2	A1 A2	-		Voltage input 2 (+)	B2	A1 A2	Voltage input 1 (+)
Input 2 -	В3		Input V 1+		Input 2 (–)	В3	A3	Input 1 (–)
Input I 4+	B4	A3	Input 1 –		AG	B4	A4	AG
Input V 4+	B5	A4	Input I 3+		Current input 4 (+) *	B5	A5	Current input 3 (+) *
Input 4 -	B6	A5	Input V 3+		Voltage input 4 (+)	B6	A6	Voltage input 3 (+)
External input trigger 2	B7	A6	Input 3 -		Input 4 (–)	B7	A7	Input 3 (–)
External input trigger 4	B8	A7	External input trigger 1		AG	B8	A8	AG
COM	B9	A8	External input trigger 3		NC	B9	A9	N.C.
Input (-)	1 -: 1	–	,		Current input (+)			
Input (-) Input I (+) Input V (+)	Z 2000 X	100 Ω 100 Ω 100 Ω Wh	LL Input circuit and conversion		Voltage input (+) Input (-) AG	\$51 T	2.2 k 0 kΩ 2.2 k 0 kΩ	Input circuland conversion circuit
External input trigger 3.3 KC	1 000		ommon to all inputs.)		(analog 0 V)	•		AG (common to all inp

[Characteristics 1

Item		Product discontinuation CJ1W-ADG41	Recommended replacement 1 CJ1W-AD042		
Unit group		CJ-series CPU Bus Units	CJ-series Special I/O Unit Isolation between input and PLC signals		
Isolation		Isolation between input and PLC signals			
Analog Inputs specifi	cation				
Number of inputs		4	4		
	-10 to 10V	1/60,000	1/40,000		
	0 to 10V	1/30,000	1/20,000		
Signal ranges	0 to 5V	1/30,000	N/A		
and resolutions	1 to 5V	1/24,000	1/10,000		
	4 to 20mA	1/24,000	1/10,000		
	-5 to 5V	N/A	1/20,000		
Input impedance		Voltage inputs : 1MΩ min, Current inputs: 250 Ω (typ)	Voltage inputs : 1MΩ min, Current inputs: 250 Ω (typ)		
A/D conversion data Overall accuracy of Full Scale 25°C		16 bits binary	16 bits binary		
		±0.05%	Voltage inputs: ±0.2% Current inputs: ±0.4%		

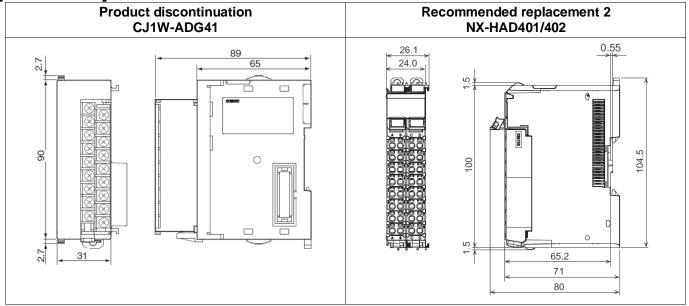
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Item		Product discontinuation CJ1W-ADG41	Recommended replacement 1 CJ1W-AD042
	0 to 55°C	±0.1%	Voltage inputs: ±0.4% Current inputs: ±0.6%
Conversion period		80 us max. for 2 points 160 us max. for 4 points	20 us max for 1 point 25 us max for 2 points 30 us max for 3 points 35 us max for 4 points
Analog input function			
Mean value process	ing	The number of averaged buffers 2, 4, 8, 16, 32, or 64	The number of averaged buffers 2, 4, 8, 16, 32, 64, 128, 256, or 512
Scaling		Between -32,768 and 32,767	Between -32,768 and 32,767
Comparator function	n		N/A
Comparator Interrup	ots function		N/A
Input Disconnection function	Detection	1 to 5V: Less than 0.3V 4 to 20mA: Less than 1.2mA	1 to 5V: Less than 0.3V 4 to 20mA: Less than 1.2mA
Data Buffering funct	tion		N/A
Zero and Span Adju function	stments		N/A
External trigger inputs			
Number of inputs		4	N/A
Input voltage		24 VDC	N/A
Input impedance		3.3kΩ	N/A
ON/OFF response ti	me	ON: 0.05ms (max) OFF:0.5ms (max)	N/A
Data exchange with CP	'U Unit	Words Allocated to CPU Bus Unit Area in CIO Area (CIO 1500 to 1899): 25 words/Unit Words Allocated to CPU Bus Unit Area in DM Area (D30000 to D31599): 100 words/Unit	Special I/O Unit Area in CIO Area (CIO 2000 to 2959): 10 words/Unit Special I/O Unit Area in DM Area (D20000 to D29599): 100 words/Unit
Internal structure		Bus Interface Amplifier Amplifier Amplifier RAM ROM Interface CPU Unit	Bus MPU RAM ROM Occiliator Nowtch Indicator Nowtch Indica
Available PLC		CJ series	CJ series/ NJ series
Reference manual		W543	W345

Please refer to the manual about operation ratings and operation methods.

2. Comparison with NX-HAD401/402

[Dimensions]



[Mounting dimensions]

L	meaning annoncions 1			
	Product discontinuation CJ1W-ADG41	Recommended replacement 2 NX-HAD401/402		
	Attached to an CJ-series CPU Unit. For details, please refer to the manual of CJ- series CPU Unit.	Attach to an NX-series CPU Unit or NX-series Communications Coupler Unit. Please refer the relevant manuals for the NX series.		

[Wire connection]

		continuation ADG41	Recommended replacement 2 NX-HAD401/402				
Terminal Arrangeme	nt		Terminal Arrangement				
Input I 2+	B1	A1 Input I 1+	A1 B1C1 D1 IN1 NC SHT1+ Input1+				
Input V 2+	B2	A2 Input V 1+	IOV1 IOG1 SHT1-Input1-				
Input 2 –	B3	A3 Input 1 -	IN2 NC SHT2+Input2+				
Input I 4+	B4	A4 Input I 3+	IOV2 IOG2 SHT2- Input2-				
Input V 4+	B5	A5 Input V 3+	IN3 NC SHT3+Input3+				
Input 4 –	B6	A6 Input 3 -	IOV3 IOG3 SHT3- Input3-				
External input trigger 2	B7	A7 External input trigger 1	IN4 NC SHT4+Input4+				
External input trigger 4	B8 B9	A8 External input trigger 3	IOV4 IOG4 SHT4- Input4-				
СОМ	БЭ	A9 COM	A8 B8C8 D8				
Input Circuit Diagram			Input Circuit Diagram				
Input (-)	100 Ω Lu	5	Input1+ to 4+ SHT1+ to 4+ SHT1- to 4- Input1- to 4- Terminal Terminal				

[Characteristics]

Item		Product discontinuation CJ1W-ADG41	Recommended replacement 2 NX-HAD401/402	
Available PLC		CJ series	NX series and NJ series	
Terminal block		Screw terminal	Screwless clamping terminal	
Isolation		Isolation between input and PLC signals	Isolation between the input circuits and internal circuits and between the input circuits of the Unit.	
Analog Inputs specific	ation			
Number of inputs		4	4	
	-10 to 10V	1/60,000	1/64,000	
	0 to 10V	1/30,000	1/32,000	
Signal ranges	0 to 5V	1/30,000	1/32,000	
and resolutions	1 to 5V	1/24,000	1/32,000	
	4 to 20mA	1/24,000	1/32,000	
	-5 to 5V	N/A	1/64,000	
Input impedance		Voltage inputs : $1M\Omega$ min, Current inputs: 250Ω (typ)	Voltage inputs : $1M\Omega$ min, Current inputs: 250Ω (typ)	
A/D Conversion dat	а	16 bits binary	16 bits binary	
Overall accuracy	25°C	±0.05%	±0.1%	
of Full Scale 0 to 55°C Conversion period Analog input function		±0.1%	±0.2%	
		80 us max. for 2 points 160 max. for 4 points	5 us max. for 4 pointsRegarding as the number of sampling setting	
Mean value processing		The number of averaged buffers 2, 4, 8, 16, 32, or 64	The moving average filter correspond to this function. The number of moving average filter: 0 to 4096.	
Scaling		Between -32,768 and 32,767	Carry out by program of CPU unit	
Comparator function	n	✓	N/A	
Comparator Interru function	pts	✓	N/A	
Input Disconnection function	n Detection	1 to 5V: Less than 0.3V 4 to 20mA: Less than 1.2mA	1 to 5V: Less than 0.3V 4 to 20mA: Less than 1.2mA	
Data Buffering function Start Data Buffering Zero and Span Adjustments function			N/A	
		External trigger input Operation CPU unit relay Trigger of analog input level	It is possible to always read to CPU unit without trigger input.	
		1	The user calibration is corresponded to this function.	
External trigger inputs		1	Record analog input value and DC time on external trigger input	
Reference manual		W543	W592 and related manuals which are introduced in W592	

Please refer to the reference manual and relevant manuals about operation ratings and operation methods.

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.