MELSEC-AnS/QnAS series \rightarrow MELSEC iQ-R series

Model list

Conversion adapters

For the specifications of conversion adapters and modules before and after replacement, refer to user's manuals. (User's manuals can be downloaded from our website.) Also, check that the modules satisfy the specifications of the devices currently connected.

For input/output modules

1-slot type

la a t	MELCEO And coming module	MELCEC IO Discribe mediale		Conversion adapter				
Input/ Output	MELSEC-AnS series module before replacement	MELSEC iQ-R series module after replacement	Note	Model	Sha	No. of input/		
Output	Delote replacement	and replacement		iviodei	MELSEC-AnS series	MELSEC iQ-R series	No. of input/ output points	
Input	A1SX10	- RX10	*1					
Прис	A1SX10EU	natu	'	- ERNT-ASQTXY10				
Output	A1SY10	RY10R2	*1, *2	LINITAGUIATIU				
Output	A1SY10EU	nt iunz	1, 2					
	A1SX30		*1, *3					
	A1SX40	RX40C7, RX70C4	*1	ERNT-ASQTX40		Townianthland	16	
	A1SX80	NA4067, NA7064	'		Terminal block (20 points)			
lanut	A1SI61		*1, *4					
Input	A1SX40-S1			LINVITAGEIA40		Terminal block (18 points)		
	A1SX40-S2	RX40C7	*1			(10 points)		
	A1SX80-S1		[]					
	A1SX80-S2							
	A1SY22	RY20S6		ERNT-ASQTY22				
	A1SY40	RY40NT5P		ERNT-ASQTY40				
Output	A1SY40P	RY4UNIOP	*1, *2					
	A1SY50	RY40NT5P	1	ERNT-ASQTY50				
	A1SY80	RY40PT5P	1	ERNT-ASQTY80				
Innut	A1SX81	RX41C4, RX41C6HS, RX71C4						
Input	A1SX81-S2	RX41C4, RX41C6HS	*5	EDNT ACLOVVO1	D-Sub connector	Connector (40D)	32	
Outout	A1SY81	DV41 DT1 D] 3	ERNT-ASLCXY81	(37P)	Connector (40P)	32	
Output	A1SY81EP	RY41PT1P						

^{*1:} A conversion adapter for replacing the MELSEC-AnS series with the MELSEC-Q series is used.

2-slot type (Not applicable to extended temperature range base units (R310B-HT, R610B-HT))

la a ut/	MELCEO And porting module	MELCEC IO Discriss module			Conversion adapter			
Input/ Output	MELSEC-AnS series module before replacement	MELSEC iQ-R series module after replacement	Note	Model	No. of input/			
Output		αποι τοριασσιποπι		Model	MELSEC-AnS series	MELSEC iQ-R series	output points	
Input	A1SX20 A1SX20EU	RX28 × 2	-	ERNT-2AR20X	Terminal block (20 points)	Terminal block (18 points) × 2	16	

^{*2:} Since the number of points per common changes, check the common terminal connection of the module before replacement.

*3: When a rated input voltage of 12 or 24VAC is used, the voltage needs to be changed to 5, 12, or 24VDC.

^{*4:} Interrupt operation setting must be set in module parameters using GX Works3 (an engineering tool manufactured by Mitsubishi Electric).
*5: A conversion adapter for replacing the MELSEC-AnS series with the MELSEC-L series is used.

Modules that can use the existing wiring as it is even after replacement (Conversion adapter not required)

Input/		MELSEC-AnS series			MELSEC iQ-R series			
Input/ Output	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules	
	A1SX41	12/24VDC, sink type	32	RX41C4 (24VDC)	24VDC, positive/negative common shared type	32	1	
		12/24VDG, SITIK type	32	RX71C4 (12VDC)	5/12VDC, positive/negative common shared type	32	1	
	A1SX41-S1	24VDC, sink type	32	RX41C4	24VDC, positive/negative common shared type	32	1	
	A1SX41-S2	24VDC, sink type	32	RX41C4	24VDC, positive/negative common shared type	32	1	
	A1SX71	5/12/24VDC, sink/source type	00	RX41C4	24VDC, positive/negative common shared type	32	1	
Input		5/12/24VDG, SIIIK/Source type	32	RX71C4	5/12VDC, positive/negative common shared type	32	1	
	A1SX42	12/24/DC sink type	64	RX42C4	24VDC, positive/negative common shared type	64	1	
		12/24VDC, sink type	04	RX72C4	5/12VDC, positive/negative common shared type	64	1	
	A1SX42-S1	24VDC, sink type	64	RX42C4	24VDC, positive/negative common shared type	64	1	
	A1SX42-S2	24VDC, sink type	64	RX42C4	24VDC, positive/negative common shared type	64	1	
	A1SX82-S1	24VDC, sink/source type	64	RX42C4	24VDC, positive/negative common shared type	64	1	
	A1SY41	12/24VDC, sink type	32	RY41NT2P	12/24VDC, sink type	32	1	
	A1SY41P	12/24VDC, sink type	32	RY41NT2P	12/24VDC, sink type	32	1	
0.44	A1SY71	5/12VDC, sink type	32	RY41NT2P (12VDC)	12/24VDC, sink type (5VDC not supported)	32	1	
Output	A1SY42	12/24VDC, sink type	64	RY42NT2P	12/24VDC, sink type	64	1	
	A1SY42P	12/24VDC, sink type	64	RY42NT2P	12/24VDC, sink type	64	1	
	A1SY82	12/24VDC, source type	64	RY42PT1P	12/24VDC, source type	64	1	
	A1SH42	Input: 12/24VDC, sink type	Input: 32	RH42C4NT2P	Input: 24VDC, sink type (12VDC not supported)	Input: 32	-	
1/0	A1SH42P	Output: 12/24VDC, sink type	Output: 32	(when input is 24VDC)	Output: 12/24VDC, sink type	Output: 32	1	
combined	A1SH42-S1	A1SH42-S1 Input: 24VDC, sink type		DUAGCANTOD	Input: 24VDC, sink type	Input: 32	1	
	A1SH42P-S1	Output: 12/24VDC, sink type	Output: 32	RH42C4NT2P	Output: 12/24VDC, sink type	Output: 32	1	

Replacement using a universal conversion adapter P.282

Input/output modules in the table below do not support the use of a conversion adapter. However, these modules can be replaced using a universal conversion adapter even though rewiring is

required.				·	,		·	Ü	· ·
Input/	N	MELSEC-AnS series before replacement			MELSEC iQ-R series after replacemen	t			Universal
Output	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules	Note	conversion adapter
	A1SY14EU	240VAC/24VDC, 2A/point, contact	12	RY10R2	240VAC/24VDC, 2A/point, contact	16	1		
	A1SY18A A1SY18AEU	240VAC/24VDC, 2A/point, independent contact	8	RY18R2A	240VAC/24VDC, 2A/point, independent contact	8	1	-	Supported
	A1SY28EU	100 to 240VAC, triac	8		There is no applicable MELSEC iQ-R series r	series module.			-
Output	A1SY60	24VDC, 2A/point, sink type	16	RY10R2	240VAC/24VDC, 2A/point, contact	16	1		Supported
Output	A1SY60E	5/12/24VDC, 2A/point, source type	16	RY10R2	240VAC/24VDC, 2A/point, contact	16	1	*6	
	A1SY68A	5/12/24/48VDC, 2A/point, sink/source type, all points independent		RY18R2A	240VAC/24VDC, 2A/point, independent contact	8	1	0	Зирропец
	A1SY28A	100 to 240VAC, triac, all points independent	8		There is no applicable MELSEC iQ-R series r	nodule.		-	-
	A1SX48Y18	Input: 24VDC, sink type	Input: 8	RX40C7	24VDC, positive/negative common shared type	16	1		
		Output: 240VAC/24VDC, contact	Output: 8	RY10R2	240VAC/24VDC, 2A/point, contact 16 1		1	_	Supported
	A1SX48Y58	Input: 24VDC, sink type	Input: 8	RX40C7	24VDC, positive/negative common shared type	16	1	_	Supported
1/0	A13A40130	Output: 12/24VDC, sink type	Output: 8	RY40NT5P	12/24VDC, sink type	16	1		
combined	A1SJ-56DT	Input: 24VDC, sink type	32	RX40C7	24VDC, positive/negative common shared type	16	2		
	A133-30D1	Output: 24VDC, sink type	24	RY40NT5P	12/24VDC, sink type	16	2		
	A1SJ-56DR	Input: 24VDC, sink type	32	RX40C7	24VDC, positive/negative common shared type	16	2	_	_
	A100-00DII	Output: 240VAC/24VDC, contact	24	RY10R2	240VAC/24VDC, contact	16	2		
Dynamic input	A1S42X	12/24VDC	16/32/ 48/64	There is no easilisable MELCEC in Description module					
Dynamic output	A1S42Y	12/24VDC	There is no applicable MELSEC iQ-R serie 16/32/ 48/64			nouule.		-	-

^{*6:} The output type changes from transistor output to contact output.

When there is no applicable module to be replaced Upgrading existing programmable controller systems using the time and wire saving devices > P.86

Refer to the later section. The section describes how to replace modules that have no applicable module in the programmable controller series after replacement or modules that do not support

(Example) The existing module uses 200VAC. But, the model list for the programmable controller series after replacement does not have a module that uses 200VAC. In such a case, the module can be replaced by using our digital signal converter (terminal module) (200VAC input type).

For analog modules

1-slot type

l /	MELCEC And antique module before	MELCEC IO Discript		Conversion adapter				
Input/ Output	MELSEC-AnS series module before replacement	MELSEC iQ-R series module after replacement	Note	Model		ape	No. of	
Output	Торисотнен	module alter replacement		Model	MELSEC-AnS series	MELSEC iQ-R series	channels	
	A1S64AD	R60AD4	*7	ERNT-ASQT64AD				
Input	A1S68AD (voltage input)	R60ADV8	*8, *10	ERNT-ASQT68AD		Terminal block (18 points)	8	
iliput	A1S68AD (current input)	R60ADI8	*8, *9, *10	ENIVI-ASQ100AD	To contract to to all			
	A1S68AD (voltage/current mixed input)	R60AD8-G	-	ERNT-2AR68AG	Terminal block (20 points)	Connector (40P)		
	A1S62DA	R60DA4	*7, *10	ERNT-ASQT62DA	(20 points)		2	
Output	A1S68DAV	R60DAV8	*10	ERNT-ASQT68DA		Terminal block (18 points)	0	
	A1S68DAI	R60DAI8	10	ENIVI-ASQ100DA			٥	

For high-speed counter modules

1-slot type

11/	MELSEC-AnS series module before replacement	MELOFO 'O D			Conversion adap	ter	
Input/ Output		MELSEC iQ-R series module after replacement	Note	Model	Sh	No. of	
Output		artor replacement		IVIOUGI	MELSEC-AnS series	MELSEC iQ-R series	channels
	A1SD61	RD62P2	*11, *12	ERNT-ASLTD61			1
Innut	A1SD62	RD62P2	*12	ERNT-ASLTD62	Terminal block	Connector (40P)	
Input	A1SD62E	RD62P2E	12		(20 points)	:	2
	A1SD62D	RD62D2	-	ERNT-2AR62DD			

^{*11:} The RD62P2 does not have the limit switch output function of the A1SD61. Use the coincidence output function of the RD62P2 instead. Note that the specifications differ, such as having a fewer number of settings.

*12: A conversion adapter for replacing the MELSEC-AnS series with the MELSEC-L series is used.

For temperature input modules

1-slot type

lanat/	MELCEC And portion module	MELCEC IO Diseries madula			Conversion adapt	er	
Input/ Output	MELSEC-AnS series module before replacement	MELSEC iQ-R series module after replacement Note Shape		Model Shape		ape	No. of
Output		artor replacement		Model	MELSEC-AnS series	MELSEC iQ-R series	No. of channels
Innut	A1S68TD	R60TD8-G	-	ERNT-2AR68TD	Terminal block	Connector (40P)	8
Input	A1S62RD3(N)	R60RD8-G	-	ERNT-2AR62RD	(20 points)	Connector (40P)	2

For temperature control modules

1-slot type

MELCEO And antina madula hafana	MELCEC IO Dispuiss madula			Conversion adapter			
MELSEC-AnS series module before replacement	MELSEC iQ-R series module after replacement	Note	Model	Sh	No. of		
теріасетісті	arter replacement		Model	MELSEC-AnS series	MELSEC iQ-R series	channels	
A1S64TCTT-S1	R60TCTRT2TT2	-	- ERNT-2AR64TT			4	
A1S64TCTRT	ROUTCIRIZITZ	*13	ERINI-ZARO411			4	
A1S64TCRT-S1	R60TCRT4	-	ERNT-2AR64TR			4	
A1S64TCTRT	ROUTORI4	*14		Terminal block	Terminal block	4	
A1S62TCTT-S2	R60TCTRT2TT2	-	ERNT-2AR62TT	(20 points)	(18 points)	0	
A1S64TCTRT	ROUTCIRIZITZ	*15				2	
A1S62TCRT-S2	DCOTCDT4	-	EDNIT OADOOTD			0	
A1S64TCTRT	R60TCRT4	*16	ERNT-2AR62TR			2	

^{*7:} CH3 and CH4 of the R60DA4 cannot be used. (They are not connected inside a conversion adapter.)
*8: For the R60ADV8 and the R60ADI8, voltage input and current input cannot be used together in a single module.

^{*10:} A conversion adapter for replacing the MELSEC-AnS series with the MELSEC-Q series is used.

^{*13:} For thermocouple input under standard control
*14: For platinum resistance thermometer input under standard control
*15: For thermocouple input under heating-cooling control

^{*16:} For platinum resistance thermometer input under heating-cooling control

For temperature control modules with disconnection detection function

1-slot type + Disconnection detection connector conversion cable (Not applicable to extended temperature range base units (R310B-HT, R610B-HT))

This is a set product of a conversion adapter for the temperature control module (1-slot type) and a disconnection detection connector conversion cable. Use the model for the set product to order.

MELSEC-AnS series module	MELSEC iQ-R series module after	Note	Set model	Conversion adapter for temperature control modules				Disconnection detection connector conversion cable	
before replacement	replacement	INOTE	Set model		Sha	ape	No. of	Shape	
				Model Meicec And Meicec in D	channels	MELSEC-AnS series	MELSEC iQ-R series		
A1S64TCTTBW-S1	R60TCTRT2TT2BW - ERNT-2AR64TT1BW ERNT-2	ERNT-2AR64TT			4				
A1S64TCTRTBW	NOUTGINIZITZDW	*17	ENIVI-ZANO4111DW	ENNI-ZANU411		4			
A1S64TCRTBW-S1	R60TCRT4BW	-	ERNT-2AR64TR1BW	ERNT-2AR64TR		Terminal block (18 points)	4		
A1S64TCTRTBW	NOUTON14DW	*18		ERINT-ZARO41R	Terminal			Connector	Terminal
A1S62TCTTBW-S2	DCOTOTDTOTTODW	-	ERNT-2AR62TT1BW	ERNT-2AR62TT	block (20 points)		2	(8P)	block (18 points)
A1S64TCTRTBW	R60TCTRT2TT2BW	*19	ERINT-ZAROZITIDW	ERIVI-ZAROZII	(Lo politio)		2		
A1S62TCRTBW-S2	R60TCRT4BW	-	ERNT-2AR62TR1BW	ERNT-2AR62TR			2		
A1S64TCTRTBW	NOUTUNI4BW	*20	ENIVI-ZANOZIKIBW	ENIVI-ZANDZIK			2		

^{*17:} For thermocouple input under standard control

Note) Intelligent function modules other than the above (such as positioning modules, information system modules, and distribution modules) do not support the use of a conversion adapter. Therefore, rewiring is required.

Base adapters

	l											
Туре	MELSEC-AnS series base unit before replacement	MELSEC iQ-R series base unit after replacement	Note	Base adapter model	Remarks							
	A1S38B A1S38HB	R38B	*21	ERNT-ASQB38N								
	A1S38HBEU	R310B-HT	*23	None								
	A1S35B	R35B	*21	ERNT-ASQB35N								
Main	A1S33B	R33B	*21	ERNT-ASQB33N								
	A1S32B	R33B	*21	ERNT-ASQB32N								
	A1SJCPU		*21	ERNT-ASQB00JN	To use the Q7BAT-SET, install the base unit with the CPU module being							
	A1SJCPU-S3	R35B			mounted to the base adapter first. Then, attach the Q7BAT-SET to the CPU							
	A1SJHCPU				module.							
	A1S68B	R68B	*21	ERNT-ASQB68N								
	AISOOD	R610B-HT	*24	None								
Extension	A1S65B	R65B	*21	ERNT-ASQB65N								
EXTERISION	A1S58B	R68B	*21, *22	ERNT-ASQB58N								
	A1S55B	R65B	-	None								
	A1S52B	R65B	-	None								

^{*18:} For platinum resistance thermometer input under standard control *19: For thermocouple input under heating-cooling control

^{*20:} For platinum resistance thermometer input under heating-cooling control

^{*21:} A base adapter for replacing the MELSEC-AnS series with the MELSEC-Q series is used.
*22: There is no extension base unit (type requiring no power supply module) in the MELSEC iQ-R series. For this reason, only extension base units (type requiring a power supply module)

are listed as replacement target modules.

*23: The width increases by 9mm (430mm → 439mm).

*24: The width increases by 19mm (420mm → 439mm).