$\textbf{MELSEC-A/QnA series} \rightarrow \textbf{MELSEC iQ-R series}$

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

Innut/	Input/ MELSEC-A series module MELSEC iQ-R serie				Conversion adapter			
Output	before replacement	after replacement	Note	Model		hape	No. of input/ output points	
	AX10, AX10-UL	RX10	_		MELSEC-A series	MELSEC iQ-R series	output points	
	AX40, AX40-UL	TIXTO		-				
	AX70, AX70-UL	-						
Input	AX80, AX80-UL	RX40C7, RX70C4	*1					
iiipat	AX80E	1007,1007						
	Al61	-						
	Al61-S1	RX40C7	*7	ERNT-1AR10XY				
	AY10							
	AY11, AY11-UL	1			Terminal block	Terminal block		
	AY11E	RY10R2			(20 points)	(18 points)	16	
	AY11EEU	1						
	AY22	RY20S6	*1					
Output	AY40, AY40-UL		1					
	AY40P	RY40NT5P						
	AY50, AY50-UL	RY4UNIOP		ERNT-1AR40Y				
	AY70, AY70-UL	1	*1, *3	LINIT IANAOT				
	AY80	- RY40PT5P	*1					
	AY80EP	N14UF13F	'					
	AX31		*2					
	AX41, AX41-UL		*1					
	AX41-S1	RX41C4, RX41C6HS, RX71C4						
	AX81	11/41/04, 11/41/00/10, 11/7/104						
Input	AX81-S1			ERNT-1AR41X				
	AX81-S3							
	AX31-S1	RX41C4, RX41C6HS	-		Terminal block	Connector	32	
	AX71	RX41C4, RX41C6HS, RX61C6HS, RX71C4	*1		(38 points)	(40P)		
	AY41, AY41-UL		+4 +4					
	AY41P	RY41NT2P	*1, *4					
Output	AY71		*1, *3, *4	ERNT-1AR41Y				
	AY81	- RY41PT1P	*1, *5, *6					
	AY81EP	MITTIF	1, 3, 0					
Input	AX82	$\begin{array}{l} \text{RX41C4} \times \text{2, RX41C6HS} \times \text{2,} \\ \text{RX71C4} \times \text{2} \end{array}$	*8, *9	ERNT-ASLCXY81 × 2	D-Sub connector (37P) × 2	Connector (40P) × 2	64	
Output	AY82EP	RY41PT1P × 2	*8, *9		× Z			

^{*1:} Since the number of points per common changes, check the common terminal connection of the module before replacement. When 24VDC and 8 points/common are used, consider replacing the module with the RX40PC6H or RX40NC6H using a universal conversion adapter (refer to P.282).
*2: When a rated input voltage of 12 or 24VAC is used, the voltage needs to be changed to 5, 12, or 24VDC.
*3: When a rated load voltage of 5VDC is used, the voltage needs to be changed to 12 or 24VDC.

^{4:} When 16 points/2 commons are used, consider replacing the module with two RY40NT5Ps using the ERNT-1AR51Y.
5: When 16 points/2 commons are used, consider replacing the module with two RY40NT5Ps using the ERNT-1AR51Y.

^{*6:} When the maximum load current is insufficient, consider replacing the module with two RY40PT5Ps using the ERNT-1AR51Y.

*7: Interrupt operation setting must be set in module parameters using GX Works3 (an engineering tool manufactured by Mitsubishi Electric).

*8: For replacement, two MELSEC iQ-R series modules and two conversion adapters are required.

^{*9:} A conversion adapter for replacing the MELSEC-AnS series with the MELSEC-L series is used.

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

Innut/	MELSEC-A series module before replacement	A series readyle MELCEC IO D			Conversion adapter					
Input/ Output		MELSEC iQ-R series module after replacement	Note	Model	Sha	No. of input/				
υμιμαι	perore replacement	anteri	еріасептепт		Model	MELSEC-A series	MELSEC iQ-R series	output points		
Innut	AX11	RX10	× 2	*10						
Input	AX11EU	HAIU	× Z	10						
	AY13				ERNT-1AR11X13Y					
	AY13E	RY10R2	× 2	*10, *11	ERNI-TAKTIX13Y					
	AY13EU									
	AY23	RY20S6	× 2	1						
	AY10A, AY10A-UL	RY18R2A × 2		*10 ERNT-1AR10AY						
	AY11A		0			Terminal block				
	AY11AEU		×Z		EKINT-TAKTUAY	Terminal block (38 points)	(18 points) × 2	32		
Output	AY40A			*10, *12						
	AY51, AY51-UL									
	AY51-S1			*10						
	AY41, AY41-UL	RY40NT5P	× 2	10						
	AY41P				ERNT-1AR51Y					
	AY71			*10, *13						
	AY81	DVAODTED	0	*10						
	AY81EP	RY40PT5P	× 2	*10						

^{*10:} A 2-slot type module is replaced. Two MELSEC iQ-R series modules are required.

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

	MELSEC-A series module before replacement			MELSEC iQ-R series module after replacement					
Input/Output	Model Specifications		No. of points	Model	Specifications		No. of required modules		
	47/40			RX42C4	24VDC, positive/negative common shared type	64	1		
Input	AX42 AX42-S1			RX41C6HS	244DG, positive/negative confinion shared type	32	2		
	70.42 01			RX72C4	5/12VDC, positive/negative common shared type				
	AY42 AY42-S1 AY42-S3	12/24VDC, sink type	64	RY42NT2P	12/24VDC, sink type		1		
Output	AY42-S4	2-S4			12/24VDC, sink type (An external power supply needs to be connected to the module.)				
	AY72	5/12VDC, sink type		RY41NT2H	5/12/24VDC, sink type		2		
I/O combined	AH42	1 2 1 39 1		RH42C4NT2P (when input is 24VDC)	Input: 24VDC, positive/negative common shared type (12VDC input not supported)		1		
		Output: 12/24VDC, sink type		(WHEH HIPULIS 24VDC)	Output: 12/24VDC, sink type	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

requirea.									
Input/		MELSEC-A series		Use of a universal					
Output	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules	conversion adapter	
	AX20, AX20-UL	200 to 240VAC	16	RX28	100 to 240VAC		2		
	AX21, AX21EU	200 to 240VAC	32	NAZ0			4	Supported	
	AX40, AX40-UL	12/24VDC, sink type, 8 points/common		RX40PC6H	24VDC, positive common, 8 points/common	16	1		
	AX50	48VDC, sink type							
	AX50-S1	48VDC, sink/source type		Thoro is no	There is no applicable MELSEC iQ-R series module.				
Input	AX60	100/110/125VDC, sink type	16	THEIR IS HE		_			
pat	AX60-S1	100/110/125VDC, sink/source type							
	AX80, AX80-UL	12/24VDC, source type, 8 points/common		DANUNGER	24VDC, negative common, 8 points/common	16	1	Supported	
	AX80E	12/24VDC, Source type, 8 points/common		IIA4UNUUII	24vbc, negative common, o points/common	10	'	Supporteu	
	AX81-S2	48/60VDC, source type							
	AX81B	24VDC, sink/source type, disconnection detection function	32	There is no	-				
	AY15EU	240VAC/24VDC, 2A/point, contact	24	RY10R2	240VAC/24VDC, 2A/point, contact	16	2	Supported	
	AY20EU	100 to 240VAC, triac		RY20S6	100 to 240VAC, triac	10	1	Supporteu	
Output	AY60	24VDC (12/48VDC), 2A/point, sink type							
υμιραι	AY60E	24VDC (12/48VDC), 2A/point, source type	16						
	AY60EP	12/24VDC, 2A/point, source type		There is no	o applicable MELSEC iQ-R series module.			_	
	AY60S, AY60S-UL	24/48VDC (12VDC), 2A/point, sink type							
I/O combined	A42XY	Dynamic scanning	Input: 64 Output: 64						

When there is no applicable module to be replaced Upgrading existing programmable controller systems using the time and wire saving devices ▶ P.74

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 the use of a conversion adapter.

(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).

^{*11:} Since the number of points per common changes, check the common terminal connection of the module before replacement.

^{*12:} The output type changes from transistor output to contact output.
*13: When a rated input voltage of 5VDC is used, the voltage needs to be changed to 12 or 24VDC.

For analog modules

1-slot type

11/	nput/ MELSEC-A series module Output before replacement		MELOGO 'O D '		Conversion adapter				
Output			MELSEC iQ-R series module after replacement	Note	Model	Sha	No. of		
Output	5010101	оргаостионе	antor replacement		INIOUGI	MELSEC-A series	MELSEC iQ-R series	channels	
	A68AD	(Voltage input)	R60ADV8						
	A68AD	(Current input)	R60ADI8	*14	ERNT-1AR68AD				
lanut	A68AD-S2	(Voltage input)	R60ADV8	14		Terminal block (38 points)	Terminal block (18 points)	8	
Input	A68AD-S2	(Current input)	R60ADI8					0	
	A68ADN	(Voltage input)	R60ADV8	*14	- ERNT-1AR68AN				
	A68ADN	(Current input)	R60ADI8	*14, *15					
	A62DA		R60DA4	*16. *17	EDNIT AOTCODA	Terminal block		2	
	A62DA-S1		ROUDA4	16, 17	ERNT-AQT62DA	(20 points)		2	
Output	A68DAV		R60DAV8						
	A68DAI		- R60DAI8	*17	ERNT-AQT68DA	T-AQT68DA Terminal block (38 points)		8	
	A68DAI-S1		ROUDAIO						

^{*14:} For the R60ADV8 and the R60ADI8, voltage input and current input cannot be used together in a single module.
*15: A minus current cannot be input.
*16: CH3 and CH4 of the R60DA4 cannot be used. (They are not connected inside a conversion adapter.)
*17: A conversion adapter for replacing the MELSEC-A series with the MELSEC-Q series is used.

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

1 1/	MELOFO		MEI 0E0 :0 D			Conversion adapter					
Input/ Output		C-A series module re replacement			Note	Model	Sh	No. of			
Output	Deloi	c replacement	anter rep	lacement		iviouei	MELSEC-A series	MELSEC iQ-R series	channels		
Innut	A616AD	(Voltage input)	R60ADV8	× 2	*18, *19	ERNT-1AR616AD ERNT-1AR616DA		Terminal block	16		
Input	A616AD	(Current input)	R60ADI8	× 2	*18, *19, *20		Terminal block				
Output	A616DAV		R60DAV8	× 2	*10		(38 points)	FDNT 1ADC1CDA	(38 points)	(18 points) × 2	10
Output	A616DAI		R60DAI8	× 2	*18			~ _			

For high-speed counter modules

1-slot type

11/	MELOFO A in models	MELOFO IO Descionanti		Conversion adapter				
Input/ Output	MELSEC-A series module before replacement	MELSEC iQ-R series module after replacement	Note	Model	Sha	No. of		
Output	before replacement				MELSEC-A series	MELSEC iQ-R series	channels	
Innut	AD61	RD62P2	*21	ERNT-1AR61D	Terminal block	Connector (40D)	2	
Input	AD61-S1	KD02P2		EKNI-TAKOTU	(38 points)	Connector (40P)	2	

^{*21:} When the CH1 side and the CH2 side use different external power supplies, the both sides must use the same external power supply after replacement.

Base adapters

Туре	MELSEC-A series base unit before replacement	MELSEC iQ-R series base unit after replacement	Note	Base adapter model	Installable conversion adapter support flange model	
	ACOD ACOD III ACOLID	R312B			ERNT-1AR12F	
	A38B, A38B-UL, A38HB A38HBEU. A38B-E	R38B		ERNT-AQB38N	ERNT-1AR8F	
Main	ASOTIBLO, ASOB-L	R310B-HT			ERNT-1AR10F3	
IVIAIII	A35B, A35B-UL, A35B-E	R38B		ERNT-AQB35N	ERNT-1AR8F	
	A33B, A33B-UL, A33B-E	R35B	*22	ERINT-AUDSON	ERNT-1AR5F	
	A32B, A32B-UL, A32B-E	R33B		ERNT-AQB32N	ERIVI-TARSF	
		R612B			ERNT-1AR12F	
	A68B, A68B-UL	R68B		ERNT-AQB68N	ERNT-1AR8F	
		R610B-HT			ERNT-1AR10F6	
Extension	A58B, A58B-UL	R68B	*22, *23	ERNT-AQB58N	FDNT 1ADOF	
	ACED ACED III	R68B	*00	EDNT AODCEN	ERNT-1AR8F	
	A65B, A65B-UL	R65B	*22	ERNT-AQB65N	EDNT 1ADEE	
	A55B, A55B-UL R65B		*22, *23	ERNT-AQB55N	ERNT-1AR5F	

Conversion adapter support flanges

Conversion adapter support flange model		Remarks								
ERNT-1AR12F	12-slot conversion adapter support flange									
ERNT-1AR8F	8-slot conversion adapter support flange	For main/extension base units	A conversion adapter support flange is always required when a conversion adapter is used.							
ERNT-1AR5F	5-slot conversion adapter support flange									
ERNT-1AR10F3	10-slot conversion adapter support flange	For extended temperature range main base units	required when a conversion adapter is ased.							
ERNT-1AR10F6	10-slot conversion adapter support flange	For extended temperature range extension base units								

^{*18:} A 2-slot type module is replaced. Two MELSEC iQ-R series modules are required.
*19: For the R60ADV8 and the R60ADI8, voltage input and current input cannot be used together in a single module. When CH0 to CH7 and CH8 to CHF of the MELSEC-A series module are used for both voltage and current inputs, the module cannot be replaced.
*20: A minus current cannot be input.

^{*22:} The ERNT-AQB**, a product without "N" at the end of its model name, cannot be used.
*23: 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.