

## Modules that can be replaced using a universal conversion adapter

- The universal conversion adapter can be used to replace the MELSEC-A series, MELSEC-AnS series, and SYSMAC C series modules that do not support the use of a conversion adapter with the MELSEC-Q series modules.
- The universal conversion adapter can also be used to replace the modules that share each common terminal by 8 points with the common separation modules (QX40H/QX70H/QX80H/QX90H).



Check that the specifications of MELSEC-Q series modules satisfy the specifications of the devices and equipment currently connected.

### MELSEC-A series → MELSEC-Q series

#### Modules that do not support the use of a conversion adapter

Input/Output	MELSEC-A series module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	AX20(-UL)	200 to 240VAC	16	QX28	100 to 240VAC	8	2
	AX21(EU)		32				4
	AX80	12/24VDC, source type	16	QX70	5/12VDC, positive/negative common shared type	16	1
	AX80E		32				
	AX81	12/24VDC, sink/source type	32	QX71		32	
	AX81-S1		32				
	AX31	12/24VDC, 12/24VAC	32	QX41	24VDC	32	
			QX71	12VDC			
Output	AY20EU	100 to 240VAC	16	QY22	100 to 240VAC	16	1
	AY40A	12/24VDC, 0.3A, independent		QY68A	5 to 24VDC, 2A, independent	8	2
	AY60	24VDC (12/48VDC), 2A					
	AY60E	24VDC (12/48VDC), 2A					
	AY60EP	12/24VDC, 2A					
	AY60S(-UL)	24/48VDC (12VDC), 2A					
	AY15EU	240VAC, 2A	24	QY10	240VAC, 2A	16	

\*: Input specifications: Sink type = Positive common, Source type = Negative common

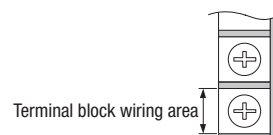
#### Modules that share each common terminal by 8 points

Input/Output	MELSEC-A series module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	AX40(-UL)	12/24VDC, sink type, 8 points/common	16	QX40H	24VDC, positive common, 8 points/common	16	1
	AX70(-UL)	5/12/24VDC, sink/source type, 8 points/common		QX70H	5VDC, positive common, 8 points/common		
				QX90H	5VDC, negative common, 8 points/common		
	AX80(-UL) AX80E	12/24VDC, source type, 8 points/common		QX80H	24VDC, negative common, 8 points/common		

\*: Input specifications: Sink type = Positive common, Source type = Negative common

#### Reference: Terminal block specifications

Item	MELSEC-A series module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3	M3	M3
Terminal block wiring area	7.2mm	6mm	7.2mm



**MELSEC-AnS series → MELSEC-Q series****Modules that do not support the use of a conversion adapter**

Input/Output	MELSEC-AnS series module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications <sup>1</sup>	No. of points	Model	Specifications <sup>1</sup>	No. of points	No. of required modules
Input	A1SX30	12/24VDC, 12/24VAC	16	QX40	24VDC, positive common	16	1
Output	A1SY14EU	24VDC/240VAC	12	QY10	24VDC/240VAC	16	1
	A1SY18A(EU) <sup>2</sup>		8	QY18A		8	
	A1SY68A <sup>2</sup>	5/12/24/48VDC, sink/source type		QY68A	5 to 24VDC, sink/source type		
I/O combined	A1SX48Y58	Input: 24VDC, sink type Output: 12/24VDC, sink type	Input: 8 Output: 8	QX48Y57	Input: 24VDC, positive common Output: 12 to 24VDC, sink type	Input: 8 Output: 7	1
	A1SX48Y18	Input: 24VDC, sink type Output: 24VDC/240VAC		QX40+QY10	Input: 24VDC, positive common Output: 24VDC/240VAC	Input: 16 Output: 16	1 + 1

\*1: Input specifications: Sink type = Positive common

\*2: The existing terminal block can be mounted to the universal conversion adapter as it is. (Attach a cover included with the existing terminal block when a standard base unit is used.)

**Reference: Terminal block specifications**

Item	MELSEC-AnS series module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter (small type)
Terminal block screw size	M3.5	M3	M3.5
Terminal block wiring area	7.3mm	6mm	7.3mm

**SYSMAC C series → MELSEC-Q series****Modules that do not support the use of a conversion adapter**

Input/Output	SYSMAC C series module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	C500-IA222	200 to 240VAC	16	QX28	100 to 240VAC	8	2
	C500-IA223		32				4
Output	C500-OC223	24VDC/250VAC, independent	16	QY18A	24VDC/240VAC, independent	8	2
	C500-OD215	24VDC, sink type, independent		QY68A	5 to 24VDC, sink/source type, independent		
	C500-OD212	12 to 24VDC, source type	32	QY81P	12 to 24VDC, source type	32	1
	C500-OA223	250VAC	24	QY22	100 to 240VAC	16	2

\*: Input specifications: Sink type = Positive common, Source type = Negative common

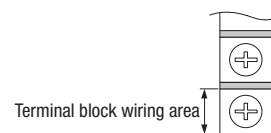
**Modules that share each common terminal by 8 points**

Input/Output	SYSMAC C series module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	C500-ID112	5 to 12VDC, sink type, 8 points/common	16	QX70H	5VDC, positive common, 8 points/common	16	1
	C500-ID213	12 to 24VDC, sink type, 8 points/common		QX40H	24VDC, positive common, 8 points/common		

\*: Input specifications: Sink type = Positive common

**Reference: Terminal block specifications**

Item	SYSMAC C series [ Large type ] module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3.5	M3	M3
Terminal block wiring area	7.3mm	6mm	7.2mm



## SYSMAC C series (C200H series) → MELSEC-Q series

### Modules that do not support the use of a conversion adapter

Input/ Output	SYSMAC C series module before replacement			MELSEC-Q series module after replacement				Note
	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules	
Input	C200H-IA121	100 to 120VAC	8	QX10	100 to 120VAC	16	1	-
	C200H-IA122		16					
	C200H-IA122V							
	C200H-IA221	200 to 240VAC	8	QX28	100 to 240VAC	8	1	
	C200H-IA222		16				2	
	C200H-IA222V							
	C200H-ID001	No-voltage input (No-contact input), for NPN output	8	QX40, QX40-S1, QX40H	24VDC, positive common	16	1	*1, *2
	C200H-ID002	No-voltage input (No-contact input), for PNP output		QX80, QX80H	24VDC, negative common			
	C200H-ID211	12 to 24VDC, positive/negative common shared type		QX40, QX40-S1, QX40H	24VDC, positive common			*3
				QX80, QX80H	24VDC, negative common			
				QX70	5/12VDC, positive/negative common shared type			
	C200H-ID212	24VDC, positive/negative common shared type	16	QX40, QX40-S1, QX40H	24VDC, positive common			-
	C200H-IM211	12 to 24VAC/DC	8	QX80, QX80H	24VDC, negative common			
				QX40, QX40-S1, QX40H	24VDC, positive common			*3
QX70				5/12VDC, positive/negative common shared type				
C200H-IM212	24VAC/DC	16	QX40, QX40-S1, QX40H	24VDC, positive common	-			
			QX80, QX80H	24VDC, negative common				
Output	C200H-OA221	250VAC maximum, 1A	8	QY22	100 to 240VAC			16
	C200H-OA222	250VAC maximum, 0.5A	12					
	C200H-OA222V	250VAC maximum, 0.3A						
	C200H-OA223	250VAC maximum, 1.2A	8					
	C200H-OA224	250VAC maximum, 0.5A	12					
	C200H-OC221	250VAC/24VDC maximum, 2A	8	QY10	240VAC, 24VDC	16	*3	
	C200H-OC222		12					
	C200H-OC222N							
	C200H-OC222V							
	C200H-OC225						16	
	C200H-OC226							
	C200H-OC226N	250VAC/24VDC maximum, 2A, independent contact	5	QY18A	240VAC, 24VDC, independent	8	-	
	C200H-OC223							8
	C200H-OC224							
	C200H-OC224N							
	C200H-OC224V	12 to 48VDC, 1A, sink type	8	QY40P	12 to 24VDC, sink type	16	*3	
	C200H-OD211		12				-	
	C200H-OD212		16					
	C200H-OD213		24VDC, 2.1A, sink type				8	*3
	C200H-OD214		24VDC, 0.8A, source type	8	QY80	12 to 24VDC, source type	-	
	C200H-OD216		5 to 24VDC, 0.3A, source type					
	C200H-OD217		12					
	C200H-OD21A		24VDC, 1A, source type	16				

\*1: Additional power supply input (5V or 12V) is required at the wiring side.

\*2: When 5VDC or 12VDC is used, consider replacing the module with the QX70 (positive/negative common shared type).

\*3: When an input module (24VDC, 8 points, positive common) or an output module (12 to 24VDC, 8 points, sink type) are used, consider replacing the module with the QX48Y57.

### Reference: Terminal block specifications

Item	SYSMAC C series [ Small type ] module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter
Terminal block screw size	M3.5	M3	M3.5
Terminal block wiring area	7.3mm	6mm	7.3mm

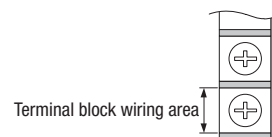


**SYSMAC C series (CS series) → MELSEC-Q series****Modules that do not support the use of a conversion adapter**

Input/Output	SYSMAC C series module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications	No. of points	Model	Specifications	No. of points	No. of required modules
Input	CS1W-IA111	100 to 120VAC/DC	16	QX10	100 to 120VAC	16	1
	CS1W-IA211	200 to 240VAC		QX28	100 to 240VAC	8	2
	CS1W-ID211	24VDC, positive/negative common shared type		QX40, QX40-S1, QX40H	24VDC, positive common	16	1
				QX80, QX80H	24VDC, negative common		
Output	CS1W-OC201	250VAC/24VDC, 2A, 120VDC, 0.1A, independent contact	8	QY18A	240VAC, 24VDC, independent	8	1
	CS1W-OC211	250VAC/24VDC, 2A, 120VDC, 0.1A	16	QY10	240VAC, 24VDC	16	
	CS1W-OA201	250VAC, 1.2A	8	QY22	100 to 240VAC		
	CS1W-OA211	250VAC, 0.5A	16	QY40P	12 to 24VDC, sink type		
	CS1W-OD211	12 to 24VDC, 0.5A, sink type		QY80	12 to 24VDC, source type		
	CS1W-OD212	24VDC, 0.5A, source type					

**Reference: Terminal block specifications**

Item	SYSMAC C series [ Small type ] module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter
Terminal block screw size	M3.5	M3	M3.5
Terminal block wiring area	7.3mm	6mm	7.3mm

**New satellite JW series [ Large type ] → MELSEC-Q series****Modules that do not support the use of a conversion adapter**

Input/Output	New satellite JW series [ Large type ] module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	JW-13N	200 to 240VAC	16	QX28	100 to 240VAC	8	2
Output	JW-35S	12/24VDC, source type	32	QY81P	12/24VDC, source type	32	1
Analog output	JW-2DA	0 to ±10VDC, 0 to ±20mADC, 11-bit signed binary	2	Q62DAN	-10 to +10VDC, 0 to ±20mADC, 16-bit signed binary	2	
High-speed counter input	JW-2HC	50/20/15/8kpps, 24-bit binary	2	QD62	200/100/10kpps, 32-bit binary	2	

\*: Input specifications: Source type = Negative common

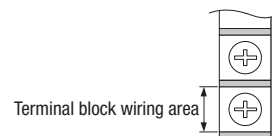
**Modules that share each common terminal by 8 points**

Input/Output	New satellite JW series [ Large type ] module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	JW-12N	12/24VDC, 24VAC, positive/negative common shared type	16	QX40H	24VDC, positive common, 8 points/common	16	1
				QX80H	24VDC, negative common, 8 points/common		
	JW-32N	12/24VDC, 24VAC, positive/negative common shared type	32	QX40H	24VDC, positive common, 8 points/common	16	2
				QX80H	24VDC, negative common, 8 points/common		
	JW-34N	12/24VDC, positive/negative common shared type	32	QX40H	24VDC, positive common, 8 points/common	16	2
				QX80H	24VDC, negative common, 8 points/common		

\*: Input specifications: Sink type = Positive common, Source type = Negative common

**Reference: Terminal block specifications**

Item	New satellite JW series [ Large type ] module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3.5	M3	M3
Terminal block wiring area	7.3mm	6mm	7.2mm



## New satellite JW series **Small type** → MELSEC-Q series

### Modules that do not support the use of a conversion adapter

Input/Output	New satellite JW series [ Small type ] module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	JW-203N	200/240VAC	8	QX28	100 to 240VAC	8	1
	JW-201N	100/120VAC		QX40, QX40-S1	24VDC, positive common	16	
	JW-202N	12/24VDC		QX70	12VDC, positive common		
Output	JW-203S	100/120VAC	8	QY22	100 to 240VAC	16	1
	JW-204S	250VAC/30VDC, 2A, independent		QY18A	240VAC/24VDC, 2A, independent	8	
	JW-204SA			QY68A	5 to 24VDC, 2A, independent		
	JW-202S	5/12/24VDC, sink type		QY80P	12/24VDC, source type	16	
	JW-215SA	5/12/24VDC, source type	16				
Analog input	JW-24AD	0 to ±10VDC, 0 to ±20mADC, 13-bit signed binary	4	Q64AD	-10 to 0 to +10VDC, 0 to 20mADC, 16-bit signed binary	4	1
Analog output	JW-22DA	0 to ±10VDC, 0 to ±20mADC, 15-bit signed binary	2	Q62DAN	-10 to +10VDC, 0 to 20mADC, 16-bit signed binary	2	

\*: Input specifications: Sink type = Positive common, Source type = Negative common

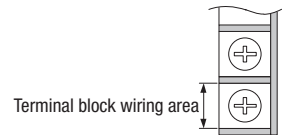
### Modules that share each common terminal by 8 points

Input/Output	New satellite JW series [ Small type ] module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	JW-212N	12/24VDC, positive/negative common shared type	16	QX40H	24VDC, positive common, 8 points/common	16	1
	JW-212NA			QX80H	24VDC, negative common, 8 points/common		
	JW-214N						
	JW-214NA						

\*: Input specifications: Sink type = Positive common, Source type = Negative common

### Reference: Terminal block specifications

Item	New satellite JW series [ Small type ] module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter (small type)
Terminal block screw size	M3.5	M3	M3.5
Terminal block wiring area	7.2mm	6mm	7.3mm



**MEMOCON-SC GL series [Large type] (2000 series I/O) → MELSEC-Q series****Modules that do not support the use of a conversion adapter**

Input/Output	MEMOCON-SC GL series [Large type] (2000 series I/O) module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	JAMSC-B2503A	200VAC	16	QX28	100 to 240VAC	8	2
	JAMSC-B2507A	200VAC	32				4
Output	JAMSC-B2912	100/200VAC, 24VDC	32	QY10	100 to 200VAC, 24VDC	16	2
	JAMSC-B2624	5VDC, sink type	64	QY41H	5/12/24VDC, sink type	32	1
	JAMSC-B2630	12/24VDC, source type	16	QY80	12/24VDC, source type	16	
	JAMSC-B2632	12/24VDC, source type	32	QY81P		32	

\*: Input specifications: Sink type = Positive common, Source type = Negative common

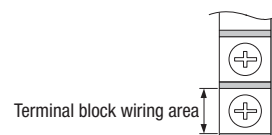
**Modules that share each common terminal by 8 points**

Input/Output	New satellite JW series [Large type] module before replacement			MELSEC-Q series module after replacement			
	Model	Specifications*	No. of points	Model	Specifications*	No. of points	No. of required modules
Input	JAMSC-B2601	12/24VDC, positive/negative common shared type	16	QX40H	24VDC, positive common, 8 points/common	16	1
	JAMSC-B2603	12/24VDC, positive/negative common shared type	32	QX80H	24VDC, negative common, 8 points/common		2
				QX40H	24VDC, positive common, 8 points/common		
				QX80H	24VDC, negative common, 8 points/common		

\*: Input specifications: Sink type = Positive common, Source type = Negative common

**Reference: Terminal block specifications**

Item	MEMOCON-SC GL series [Large type] module before replacement	MELSEC-Q series module after replacement	Universal conversion adapter (large type)
Terminal block screw size	M3	M3	M3
Terminal block wiring area	7.3mm	6mm	7.2mm

**Remarks**

The universal conversion adapter (small type) cannot be used to replace the SYSMAC C series [Small type] (CQM1) or the MEMOCON GL series [Small type] with the MELSEC-Q series because the terminal block screw size of the universal conversion adapter (small type) is bigger than those of the series before and after replacement.

**Reference: Terminal block specifications**

Item	Before replacement		MELSEC-Q series module after replacement	Universal conversion adapter (small type)
	SYSMAC C series [Small type] (CQM1) module	MEMOCON GL series [Small type] module		
Terminal block screw size	M3	M3	M3	M3.5
Terminal block wiring area	6.4mm	7mm	6mm	7.3mm

