Product lineup and combinations

When a digital signal converter (terminal module) is used

Check the compliance with the overseas standards of the products to be used in combination.

Programmable controller module IPC	Network interface module		Digital signal converter (terminal module)				
	Product	Model	Control method			Terminal block type	Model
CC-Link IE TSN manager station · MELSEC iQ-R · MELSEC iQ-F CC-Link IE Field manager station · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F CC-Link IE Field Basic manager station · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L SLMP client · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F MODBUS/TCP · MELSEC iQ-R · MELSEC-Q · MELSEC-L CC-Link manager station · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F General-purpose controller (standard Ethernet)	Digital signal converter for input signals	With a dedicated cable FA3-TH1□16XC-01C Without a dedicated cable FA3-TH1□16XC	Installation base unit (module selectable type)		4 points, independent	Spring clamp	FA1-TH4X2SC20S1E
					8 points, independent		FA1-TH8X2SC20S1E
			Module pre-mounted type	24VDC (N/O contact)	4 points, independent (positive)	Spring clamp	FA1-TH4X24RA1L20S1E
					4 points, independent (negative)		FA1-TH4X24RA1H20S1E
					8 points, independent (positive)	Spring clamp	FA1-TH8X24RA1L20S1E
					8 points, independent (negative)		FA1-TH8X24RA1H20S1E
					16 points, independent (positive)	Spring clamp	FA1-TH16X24RA1L20S1E
					16 points, independent (negative)		FA1-TH16X24RA1H20S1E
					16 points, independent	Screw (M3)	FA-TH16XRA20S
			Module built-in type	24VDC	16 points/common, 2-wire type	Screw (M3)	FA-TH16X24D31
						Screw (M3.5)	FA-TH16X24D31L
				48VDC	16 points/common, 2-wire type	Screw (M3.5)	FA-TH16X48D31L
				100VDC	16 points/common, 2-wire type	Screw (M3.5)	FA-TH16X100D31L
				100VAC	16 points/common, 2-wire type	Screw (M3)	FA-TH16X100A31
						Screw (M3.5)	FA-TH16X100A31L
				200VAC	16 points/common, 2-wire type	Screw (M3)	FA-TH16X200A31
						Screw (M3.5)	FA-TH16X200A31L
	Digital signal converter for output signals (sink)	With a dedicated cable FA3-TH1□16Y-01C Without a dedicated cable FA3-TH1□16Y	Installation base unit (module selectable type)		4 points, independent (sink)	Spring clamp	FA1-TH4Y2SC20S1E
					8 points, independent (sink)		FA1-TH8Y2SC20S1E
					16 points, independent (sink)		FA1-TH16Y2SC20S1E
			Module pre-mounted type	N/O contact relay	16 points, independent	Spring clamp	FA1-TH16Y2RA20S1E
						Screw (M3)	FA-TH16YRA20S
							FA-TH16YRA20
						Screw (M3.5)	FA-TH16YRA20SL
					16 points/common, 1-wire type	Screw (M3)	FA-TH16YRA11S
							FA-TH16YRA11
					16 points/common, 2-wire type	Screw (M3)	FA-TH16YRA21S
							FA-TH16YRA21
				N/C contact relay	16 points, independent	Screw (M3.5)	FA-TH16YRAB20SL
				C/O contact relay	16 points, independent	Screw (M3)	FA-TH16YRAC20S
				Triac	16 points, independent	Spring clamp	FA1-TH16Y1SR20S1E
						Screw (M3)	FA-TH16YSR20S
					16 points/common, 1-wire type	Screw (M3)	FA-TH16YSR11S
					16 points/common, 2-wire type	Screw (M3)	FA-TH16YSR21S
				Transistor (sink)	16 points, independent (sink)	Spring clamp	FA1-TH16Y1TR20S1E
					16 points/common, 1-wire type (sink)	Screw (M3)	FA-TH16YTL11S
					16 points/common, 2-wire type (sink)	Screw (M3)	FA-TH16YTL21S
					16 points/common, 1-wire type (source)	Screw (M3)	FA-TH16YTH11S
					16 points, independent (sink/source shared type)	Screw (M3)	FA-TH16YTR20S
			Module built-in type		16 points, independent, 2A (sink/source shared type)	Screw (M3)	FA-TH16Y2TR20
	Digital signal converter for output signals (source)	With a dedicated cable FA3-TH1□16YE-01C Without a dedicated cable FA3-TH1□16YE	Installation base unit (module selectable type)		4 points, independent (sink)	Spring clamp	FA1-TH1E4Y2SC20S1E
					8 points, independent (sink)		FA1-TH1E8Y2SC20S1E
					16 points, independent (source)		FA1-TH1E16Y2SC20S1E
			Module pre-mounted type	N/O contact relay	16 points, independent (source)	Spring clamp	FA1-TH1E16Y2RA20S1E
					16 points, independent (source)	Screw (M3)	FA1-TH1E16Y2RA20S
				Triac	16 points, independent (source)	Spring clamp	FA1-TH1E16Y1SR20S1E
				Transistor (source)	16 points, independent (source)	Spring clamp	FA1-TH1E16Y1TR20S1E
					16 points, independent (sink/source shared type)	Screw (M3)	FA-THE16YTR20S
					16 points/common, 1-wire type (source)	Screw (M3)	FA-THE16YTH11S

Module						
Specifications (Signal pass-through modules cannot be used.)						Model
Functional module	Input		24VDC relay isolation (navy blue)		Quantity: 1 Quantity: 2 Quantity: 4	FA1-TM1X24RA-*
			24VDC photocoupler isolation (black)			FA1-TM1X24D-*
			48VDC photocoupler isolation (sky blue)			FA1-TM1X48D-*
			100VDC photocoupler isolation (purple)			FA1-TM1X100D-*
			100VAC photocoupler isolation (orange)			FA1-TM1X100A-*
			200VAC photocoupler isolation (red)			FA1-TM1X200A-*
			Dummy (for dustproof) (green)		Quantity: 4	FA1-TM1ND4
Slim module	Input/output		N/O contact relay (beige)	Input: 24VDC Output: 24VDC, 100 to 240VAC, 2A	Quantity: 2 Quantity: 4	FA-NYP24WK*
			N/C contact relay (sky blue)			FA-NYBP24WK*
	Output		C/O contact relay (white)	24VDC, 100 to 240VAC, 6A	Quantity: 4	FA-LYCA024VSK4
			Triac (black)	30 to 240VAC, 1A	Quantity: 2 Quantity: 4	FA-SN24A01FS*
			Transistor (red)	3 to 30VDC, 1A		FA-SN24D01HZS*

The asterisk in the model name is replaced by a number indicating the quantity.
It is replaced by "2" when the quantity is two, or "4" when the quantity is four.

Related products

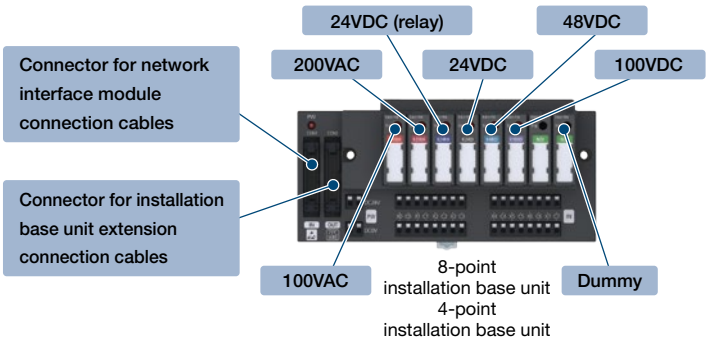
Digital signal converter (terminal module)

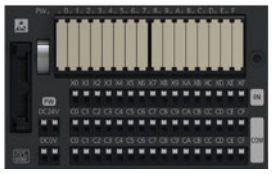
Digital signals will be converted between devices such as the network interface module and sensor.
For terminal blocks, the spring clamp terminal block type and screw terminal block type are available.

More information

- **Input** Spring clamp terminal block | Screw terminal block

Modules for different input voltage loads (24VDC, 48VDC, 100VDC, 100VAC, 200VAC) can be selected and mixed per point depending on the connected device.

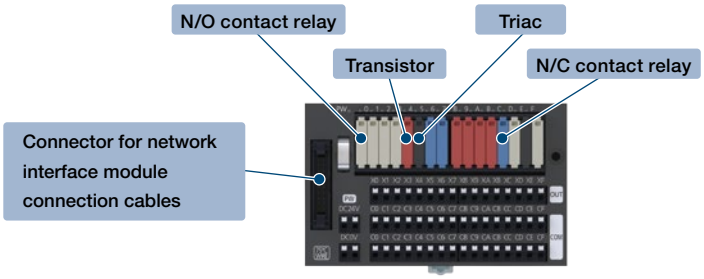




Unit with a 16-point relay module
Unit with a 8-point relay module
Unit with a 4-point relay module

- **Output** Spring clamp terminal block | Screw terminal block

Modules for different control methods (relay, triac, transistor) can be selected and mixed per point depending on the connected device.



Unit with a 16-point relay module selectable type (installation base unit)
Unit with a 16-point relay module
Unit with a 8-point relay module selectable type (installation base unit)
Unit with a 4-point relay module selectable type (installation base unit)

When an analog signal converter is used

Check the compliance with the overseas standards of the products to be used in combination.

Programmable controller module IPC	Network interface module		Analog signal converter					
	Product	Model	Installation base unit		Mountable module (Pass-through modules cannot be used.)			
			Model		Specifications			Model
CC-Link IE TSN manager station · MELSEC iQ-R · MELSEC iQ-F CC-Link IE Field manager station · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F CC-Link IE Field Basic manager station · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L SLMP client · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F MODBUS/TCP · MELSEC iQ-R · MELSEC-Q · MELSEC-L CC-Link manager station · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F General-purpose controller (standard Ethernet)	Analog signal converter for input signals	With a dedicated cable FA3-AT1☐8X-01C Without a dedicated cable FA3-AT1☐8X	4-channel spring clamp terminal block FA1-AT1B4X1TE 4-channel screw terminal block FA1-AT1B4X1TB 8-channel spring clamp terminal block FA1-AT1B8X1TE 8-channel screw terminal block FA-ATB8XTB	+	Voltage input	0 to 5V		FA-ATSVM1XV05
						1 to 5V		FA-ATSVM1XV15
						-10 to 10V		FA-ATSVM1XV1010
					Current input	4 to 20mA		FA-ATSVM1XA420
					Distributor (2-wire transmitter)	4 to 20mA		FA-ATSVM1XD
					RTD input	Pt100	-200 to +650°C	FA-ATSVM1XRPT
						Pt100	0 to +100°C	FA-ATSVM1XRPT0010
						Pt100	0 to +200°C	FA-ATSVM1XRPT0020
						JPt100	-200 to +600°C	FA-ATSVM1XRJPT
					Thermocouple input	Type B thermocouple	+600 to +1700°C	FA-ATSVM1XTB
						Type R thermocouple	0 to +1600°C	FA-ATSVM1XTR
						Type S thermocouple	0 to +1600°C	FA-ATSVM1XTS
						Type K thermocouple	-200 to +1200°C	FA-ATSVM1XTK
							0 to +400°C	FA-ATSVM1XTK0040
							0 to +600°C	FA-ATSVM1XTK0060
							0 to +800°C	FA-ATSVM1XTK0080
						Type E thermocouple	-200 to +900°C	FA-ATSVM1XTE
						Type J thermocouple	-40 to +750°C	FA-ATSVM1XTJ
						Type T thermocouple	-200 to +350°C	FA-ATSVM1XTT
						Type N thermocouple	-200 to +1250°C	FA-ATSVM1XTN
					CT input	AC0 to 600A		FA1-AT1CT-1-5
					Dummy	Quantity: 5		FA-ATNDM5
	Analog signal converter for output signals	With a dedicated cable FA3-AT1☐8Y-01C Without a dedicated cable FA3-AT1☐8Y	4-channel spring clamp terminal block FA1-AT1B4Y1TE 4-channel screw terminal block FA1-AT1B4Y1TB 8-channel spring clamp terminal block FA1-AT1B8Y1TE 8-channel screw terminal block FA-ATB8YTB	+	Voltage output	0 to 5V		FA-ATSVM1YV05
						1 to 5V		FA-ATSVM1YV15
						0 to 10V		FA-ATSVM1YV010
						-10 to 10V		FA-ATSVM1YV1010
					Current output	0 to 20mA		FA-ATSVM1YA020
						4 to 20mA		FA-ATSVM1YA420
					Dummy	Quantity: 5		FA-ATNDM5

Related products

Analog signal converter

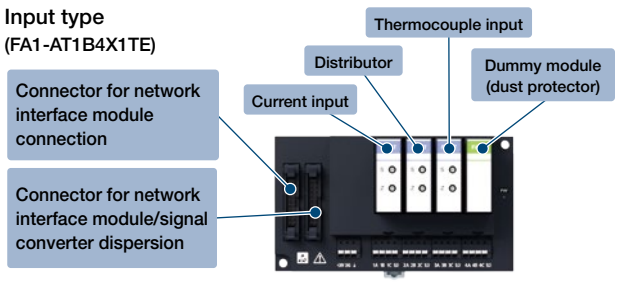
Analog signals will be converted between devices such as the network interface module and temperature sensor. Isolation is implemented between channels.

Spring clamp terminal block　Screw terminal block

For input, modules for different analog inputs (voltage, current, distributor, thermocouple, RTD) can be selected and mixed per channel.
For output, modules for different analog outputs (voltage, current) can be selected and mixed per channel.

More information

Input type
(FA1-AT1B4X1TE)



Output type
(FA1-AT1B4Y1TE)