## **MITSUBISHI**

# A-A1S Module Conversion Adapter

User's Manual

## A1ADP-XY A1ADP-SP

Thank you for buying the Mitsubishi general-purpose programmable controller MELSEC-A Series

Prior to use, please read both this manual and detailed manual thoroughly and familiarize yourself with the product.



MODEL	A1ADP-U-JE	
MODEL	13JQ00	
CODE	133Q00	
IB(NA)-0800352-E(0811)MEE		

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#### SAFETY PRECAUTIONS

(Always read before starting use)

When using this equipment, thoroughly read this manual. Also pay careful attention to safety and handle the module properly.

These precautions apply only to this equipment.

Refer to the user's manual of the CPU module to use for a description of the programmable controller system safety precautions.

These "SAFTY PRECAUTIONS" classify the safety precautions into two categories: "DANGER" and "CAUTION".



Procedures which may lead to a dangerous condition and cause death or serious injury, if not carried out properly.



Procedures which may lead to a dangerous condition and cause superficial to medium injury, or physical damage only, if not carried out properly.

Depending on circumstances, procedures indicated by **CAUTION** may also be linked to serious results.

In any case, it is important to follow the directions for usage.

Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

#### [DESIGN PRECAUTIONS]

## **DANGER**

- When using the A series module to which the A-A1S module conversion adapter has been installed on the right side, attach a dustproof cover to the module.
  - If no dustproof cover is attached, foreign matter will enter the module, resulting in a failure. Furthermore, internal parts of the module may be flied in the short circuit test or when an overcurrent or overvoltage is accidentally applied to the external I/O section.
- Before installing the AnS series module to the A1ADP, attach the dustproof cover to the module.
  - If no dustproof cover is attached, foreign matter will enter the module, resulting in a failure. Furthermore, internal parts of the module may be flied in the short circuit test or when an overcurrent or overvoltage is accidentally applied to the external I/O section.

## [INSTALLATION PRECAUTIONS]

## **CAUTION**

- Use the programmable controller in the environment given in the general specifications section of the User's manual for CPU module being used. Using the programmable controller outside the range of the general specifications may result in electric shock, fire or erroneous operation or may damage or degrade the product.
- Fully insert adapter fixing projections on the lower part of an adapter into fixing holes on the base unit, then tighten the adapter mounting screw within the specified torque.

If the adapter is not correctly installed or no screw is tightened, it causes malfunctions, a failure, or drop.

Tightening the screw excessively may damage the screw and/or adapter, resulting in a drop of the adapter and installed module, short circuit, or malfunctions.

- Be sure to shut off all phases of the external supply power used by the system before installing or removing the adapter.
   Failure to do so may damage the products.
- Do not directly touch the conductive part or electronic components of an adapter.

Doing so may cause malfunctions or a failure of the adapter.

#### [WIRING PRECAUTIONS]

## (!) DANGER

- Be sure to shut off all phases of the external supply power used by the system before wiring.
  - Failure to do so may result in an electric shock or damage of the product.
- Before energizing and operating the system after wiring, be sure to attach the terminal cover supplied with the product.
  - Failure to do so may cause an electric shock.

## **CAUTION**

- Wire the module correctly after confirming the rated voltage and terminal layout.
  - Connecting a power supply of a different voltage rating or incorrect wiring may cause a fire or failure.
- Do not connect multiple power supply modules to one module in parallel. The power supply modules may be heated, resulting in a fire or failure.
- Press, crimp or properly solder the connector for external connection with the specified tool.
  - Incomplete connection may cause a short circuit, fire or malfunctions.

#### [WIRING PRECAUTIONS]

## **CAUTION**

- Tighten terminal screws within the specified torque range. If the screw is too loose, it may cause a short circuit, fire or malfunctions.
   If too tight, it may damage the screw and/or the module, resulting in a short circuit or malfunctions.
- Carefully prevent foreign matter such as dust or wire chips from entering the module.

Failure to do so may cause a fire, failure or malfunctions.

## [STARTING AND MAINTENANCE PRECAUTIONS]

## **!** DANGER

 Be sure to shut off all phases of the external supply power used by the system before cleaning or retightening the terminal screws, module mounting screw, or adapter mounting screw.

Failure to do so may result in an electric shock.

If they are too loose, it may cause a short circuit or malfunctions.

If too tight, it may cause damage to the screws and/or module, resulting in a drop of the adapter and installed module, short circuit, or malfunctions.

## **CAUTION**

- Do not disassemble or modify each of adapters.
   Doing so may cause a failure, malfunctions, personal injuries, and/or a fire.
- When using a wireless communication device such as a mobile phone, keep a distance of 25cm (9.84inch) or more from the programmable controller in all directions.

Failure to do so may cause malfunctions.

- Be sure to shut off all phases of the external supply power used by the system before installing or removing the adapter.
  - Failure to do so may result in a failure or malfunctions of the adapter and installed module.
- Before handling adapters, touch a grounded metal object to discharge the static electricity from the human body.

Failure to do so may cause a failure or malfunctions of the installed module.

### [DISPOSAL PRECAUTIONS]

## **CAUTION**

When disposing of this product, treat it as industrial waste.

#### Revisions

\* The manual number is noted at the lower right of the top cover.

The manual number is noted at the lower right of the top cover.				
Print Date	*Manual Number	Revision		
Jun., 2006	IB(NA)-0800352-A	First printing		
May, 2007	IB(NA)-0800352-B	Correction		
		Section 2.3, Chapter 7, Section 8.2		
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		Chapter 7, Section 8.2		
Jul., 2008	IB(NA)-0800352-D	Correction		
		Chapter 7		
Nov., 2008	IB(NA)-0800352-E	Correction		
		Section 2.1, 2.2, 8.2		

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#### **GENERIC TERMS AND ABBREVIATIONS**

Unless otherwise specified, this manual uses the following generic terms and abbreviations to explain the A-A1S module conversion adapter.

Generic term/abbreviation	Description
A1ADP-XY	Abbreviation for the A-A1S module conversion adapter of the A1ADP-XY type.
A1ADP-SP	Abbreviation for the A-A1S module conversion adapter of the A1ADP-SP type.
A1ADP	Generic term for the A1ADP-XY and A1ADP-SP.
A1ADP + AnS series module	Abbreviation when the AnS series I/O module or special function module is installed to the A1ADP.

#### Conformation to the EMC Directive and Low Voltage Instruction

(1) For programmable controller system

When complying with EMC Directives and Low-Voltage Directives by assembling a Mitsubishi programmable controller compatible with EMC Directive and Low-Voltage Directives into the user product, refer to "EMC Directives and Low-Voltage Directives" in the User's Manual for the CPU module being used. The CE mark, indicating compliance with the EMC and Low Voltage Directives, is printed on the rating plate of the programmable controller.

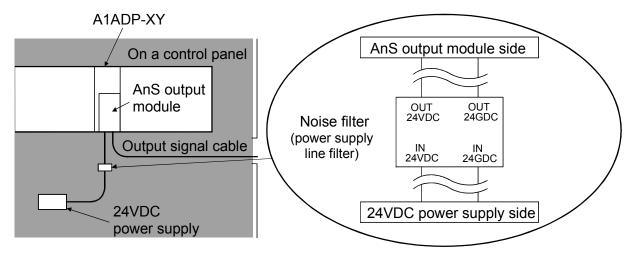
#### (2) For the product

For the compliance of this product with the EMC and Low Voltage Directives, installing a noise filter (power supply line filter) as the following is required.

(a) When using the A1ADP-XY with an AnS series output module, attach any of the following noise filters (power supply line filters) to reduce conductive noise of 24VDC external supply power cable.

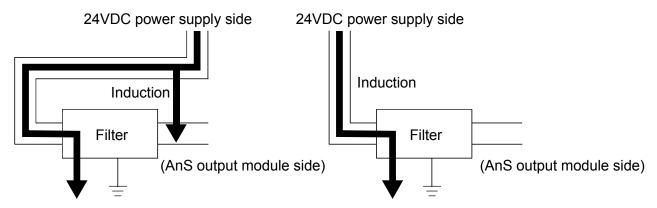
Noise filter model name	ZHC2203-11	ZHC2206-11	ZHC2210-11	MBS4830
Manufacturer	TDK			DENSEI-LAMBDA
Rated current	3A 6A 10A			30A
Rated voltage	250V			48V

(b) Referring to the following, attach a noise filter (power supply line filter) to the 24VDC external supply power cable connected to the AnS series output module.



- (c) The following describes the precautions for attaching a noise filter.
  - 1) Do not bundle the wires on the input side and output side of the noise filter.

When bundled, the input side noise will be induced into the output side wires from which the noise was filtered.



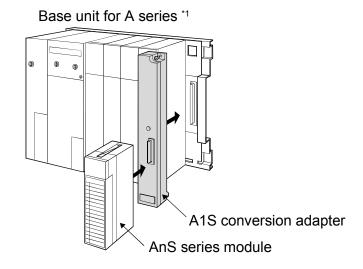
- 1) The noise will be included when the input and output wires are bundled.
- 2) Separate and lay the input and output wires.
- 2) Earth the noise filter earthing terminal to the control cabinet with the shortest wire possible (approx. 10cm (3.94 in.)).

#### 1. OVERVIEW

#### 1.1 Overview

This manual describes specifications, system equipment, part names, loading, and installation of the A-A1S module conversion adapters of the A1ADP-XY type and A1ADP-SP type.

The A1ADP is an adapter module used to install the AnS series I/O modules and special function modules to the base unit for A/QnA (large type) series.



\*1: For details of the system configuration that enables the installing the A1ADP to A series base units, refer to Chapter 2.

A1ADP-XY.....For the AnS series I/O modules
A1ADP-SP.....For the AnS series special function modules

#### **POINT**

When modules are installed in either of the following combinations, the operation is not guaranteed.

- Combination of the A1ADP-XY with the AnS series special function modules
- Combination of the A1ADP-SP with the AnS series I/O modules

#### 1.2 Supplied Parts

The parts enclosed with the A1ADP are listed below.

Product	Туре	Quantity	Remarks
A-A1S module conversion adapter	A1ADP-XY or A1ADP-SP	1	_
The dustproof cover for the A1ADP-XY/SP		1	"A1ADP" is shown on the backside of the dustproof cover.
This manual		1	_

For references of the dustproof cover, see the back cover of this manual.

### 1.3 Related Parts (Sold Separately)

When the A series module has been installed on the right of a slot to which the A1ADP has been loaded, attach the following dustproof cover to the A series module side.

The following dustproof cover is not an accessory. Please purchase it separately.

Product name	Manufacturer	Quantity	Remarks
A55B, 58B I/O dustproof cover	Mitsubishi Electric System Service Co., Ltd.	1	Same dustproof cover included in the A52B, A55B, and A58B.

For references of the dustproof cover, see the back cover of this manual.

#### 2. SYSTEM CONFIGURATION

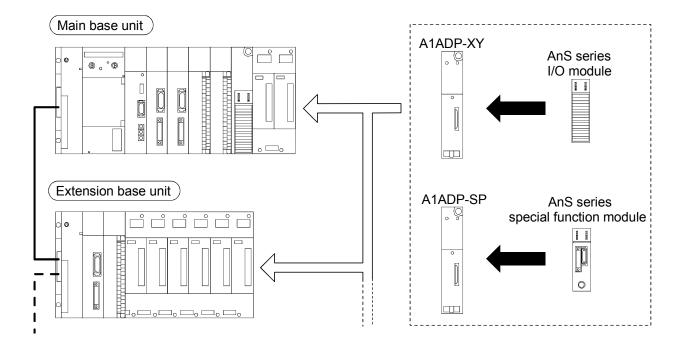
The A1ADP can be installed to the following base units.

- A/QnA (large type) series main base units or extension base units
- A series extension base units installed to Q series base units

This section describes the system configuration, available base units, available CPU modules, and precautions for the A1ADP.

## 2.1 For installing the A1ADP to an A/QnA (large type) series main base unit or extension base unit

#### 2.1.1 System Configuration



#### 2.1.2 Available Base Units List

The following table shows the base units to which the A1ADP can be installed. Up to three A1ADPs can be installed to one base unit.

Main base unit		Extension base unit		
Туре	Number of installable adapters	Туре	Number of installable adapters	
A38B	3	A68B	3	
A38B-E	3	A68B-UL	3	
A38B-UL	3	A65B	3	
A38HB	3	A65B-UL	3	
A38HBEU	3	A62B	2	
A35B	3	A58B	3	
A35B-E	3	A58B-UL	3	
A35B-UL	3	A55B	3	
A32B	2	A55B-UL	3	
A32B-E	2	A52B	2	
A32B-UL	2	A68RB	3	
A32B-S1	2			
A37RHB	3			
A33RB	2			
A32RB	1			

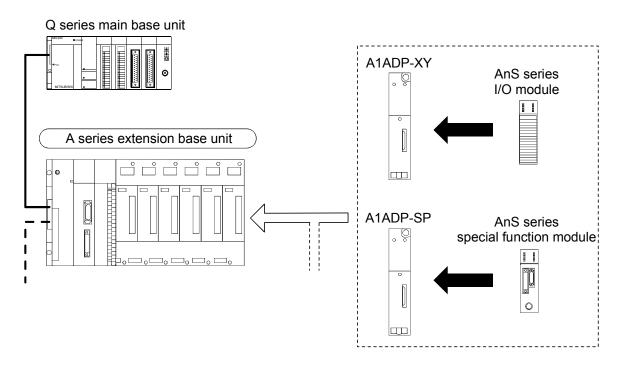
#### 2.1.3 Available CPU modules list

The following table shows the CPU modules available for the A1ADP use.

Available CPU module				
A1NCPU	A1NCPUP21	A1NCPUR21	A2NCPU	
A2NCPUP21	A2NCPUR21	A2NCPU-S1	A2NCPUP21-S1	
A2NCPUR21-S1	A3NCPU	A3NCPUP21	A3NCPUR21	
A2ACPU	A2ACPUP21	A2ACPUR21	A2ACPU-S1	
A2ACPUP21-S1	A2ACPUR21-S1	A3ACPU	A3ACPUP21	
A3ACPUR21	A2UCPU	A2UCPU-S1	A3UCPU	
A4UCPU	A1NCPUP21-S3	A2NCPUP21-S3	A2NCPUP21-S4	
A3NCPUP21-S3	A2ACPUP21-S3	A2ACPUP21-S4	A3ACPUP21-S3	

## 2.2 For installing the A1ADP to the A series extension base unit connected to a Q series base unit

#### 2.2.1 System Configuration



#### 2.2.2 Available Base Units List

The following table shows the base units to which the A1ADP can be installed. Up to three A1ADPs can be installed to one base unit.

Ex	tension base unit	
Туре	Number of installable adapters	Remarks
A68B	3	
A68B-UL	3	
A65B	3	Install the QA6ADP to an extension main
A65B-UL	3	base unit.
A62B	2	However, the modules that can be installed to
A58B	3	have restrictions.
A58B-UL	3	For details, refer to the QA6ADP QA
A55B	3	Conversion Adapter Module User's Manual.
A55B-UL	3	
A52B	2	
QA68B	3	The modules that can be installed to have restrictions.
QA65B	3	For details, refer to the QA65B/QA68B Extension Base Unit User's Manual.

#### 2.2.3 Available CPU modules list

The following table shows the CPU modules available for the A1ADP use.

Available CPU module				
Q02CPU	Q02HCPU	Q06HCPU	Q12HCPU	Q25HCPU

#### 2.3 Precautions for Use

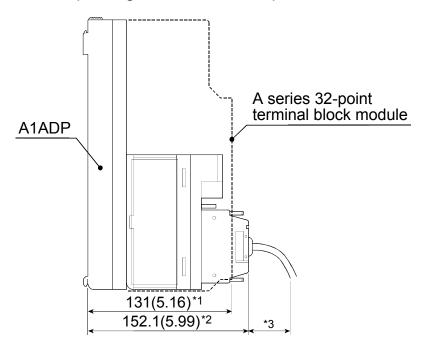
- (1) When replacing the A series module by the A1ADP + AnS series module, the internal current consumption may increase. At replacement, make sure to check the 5VDC internal current consumption of the modules before and after replacement. If the 5VDC internal current consumption increases after the replacement, confirm that the current consumption of the modules used does not exceed the rated output current of the power supply module used.
- (2) When the A1ADP + AnS series module is installed to an extension base unit not needing a power supply module (A52B, A55B, or A58B) in the case that the increase in 5VDC internal current consumption may cause, voltage drop increases in the extension cable. Therefore, recalculating the receiving end voltage is required.

  (For confirmation method, refer to the "Application standards of Extension.")
  - (For confirmation method, refer to the "Application standards of Extension Base Units" (A52B, A55B, or A58B) in the CPU module's User's Manual.)

(3) AnS series 32-point I/O modules and special function modules are connector type. Accordingly, when installing them to an A series base unit using the A1ADP, its depth is deeper than when installing an A series 32-point module.

When using the AnS series 32-point I/O modules or special function modules, confirm that there is enough room.

Example When replacing the A series 32-point module



Unit: mm (inch)

- \*1: Depth dimension of the A series 32-point terminal block module
- \*2: Depth dimension of the A1ADP + AnS series 32-point connector type module
- \*3: Consider the bending radius of a connector cable.
- (4) The AnS series output module with a fuse detects fuse blown if external supply power has not been input.

Use special relay M9084 or SM1084 (error check) at power-on with the external supply power OFF so that fuse blown may not be detected.

(5) When mounting the A1ADP-XY+AnS series output module with a fuse on the MELSECNET/II remote I/O station (AJ72P25 or AJ72R25), the CPU module of the master station may detect "UNIT VERIFY ERR.".

However, note that the AJ72P25 or AJ72R25 whose software version is "P" or later is used, "UNIT VEFIRY ERR." will not be detected.

Turning ON the power supply of the master station after turning ON the power supply of the remote I/O station and the 24VDC external power supply enables to avoid "UNIT VEFIRY ERR.".

Also, if the fuse blown is detected, cancel the error by the reset operation of the CPU module used.

## 3. SPECIFICATIONS

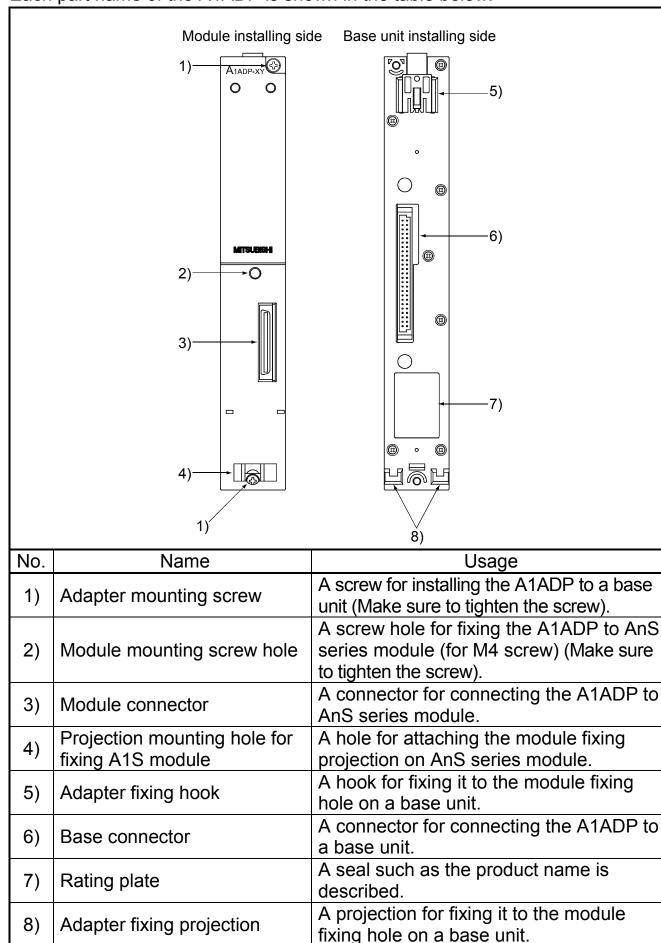
## **3.1 Performance Specifications**

The performance specifications of the A1ADP are shown below.

Specification	A1ADP-XY	A1ADP-SP
5VDC internal current consumption	3.4mA	0mA
External dimensions	250(H)×37.5(W)×35.5(D) (9.84×1.48×1.40) mm (inch)	
Weight	0.20kg	

#### 4. PARTS NAMES

Each part name of the A1ADP is shown in the table below.



#### 5. LOADING AND INSTALLATION

#### 5.1 Precautions when Handling

The following is an explanation of handling precautions of the A1ADP.

- (1) Since the adapter case is made of plastic, do not drop it or subject it to mechanical impact to it.
- (2) Execute tightening of installation screws within the range indicated below.

Screw location	Tightening torque range
Module installation screw of AnS series (M4 screw)	78 to 118N•cm
Adapter mounting screw (M4 screw)	78 to 118N•cm

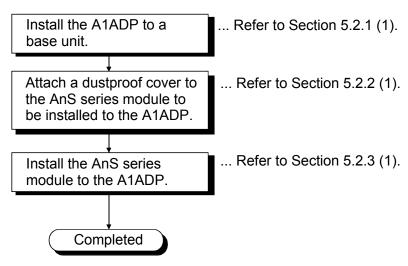
(3) To correctly install the adapter module to the base unit, insert the adapter fixing projections provided at the bottom of the module in the module mounting holes in the base unit. And then, secure the module by tightening the adapter mounting screw.

To remove the module, remove the adapter mounting screw first. And then, pull out the module so that the adapter fixing projections are removed from the holes in the base unit.

#### 5.2 Installation/Removal Procedures of the A1ADP + AnS Series Module

This section describes the procedures for installing/removing the A1ADP to/from a base unit and AnS series module.

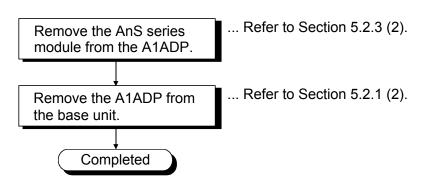
(1) Installation procedure



#### **POINT**

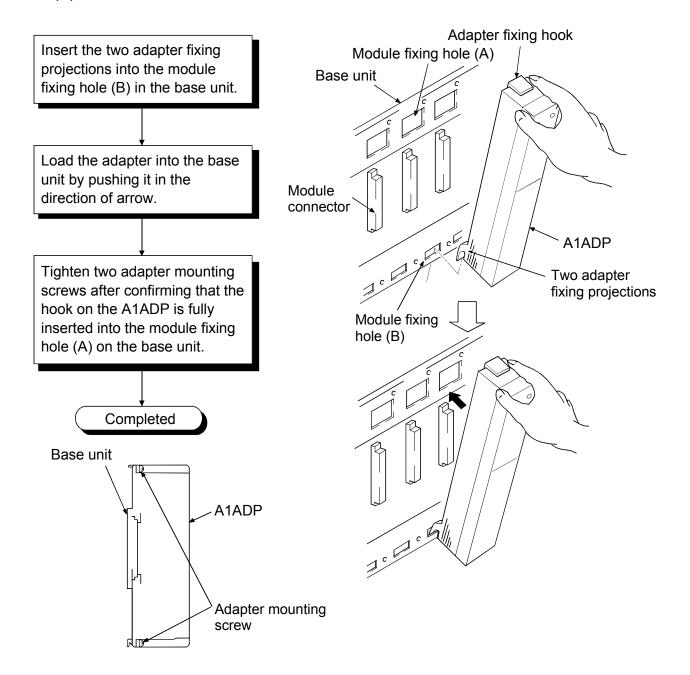
Note when installing the AnS series module before tightening an adapter mounting screw of the A1ADP, the tightening cannot be done.

(2) Removal procedure



#### 5.2.1 Installing/removing the A1ADP

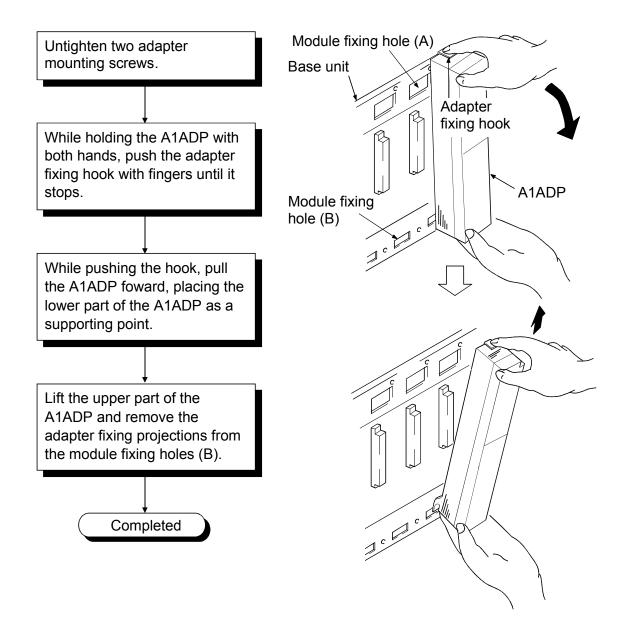
#### (1) A1ADP installation



#### **POINT**

For fixing the A1ADP, insert the adapter fixing projections into the module fixing holes (B). Forceful installation may damage the module connector and/or A1ADP.

#### (2) A1ADP removal



#### **POINT**

Before removing the A1ADP, make sure to untighten two adapter mounting screws. Then, remove the adapter fixing hook from a module fixing hole (A), and also the adapter fixing projections from a module fixing holes (B). Forcefully removing the adapter may damage the adapter fixing hook and/or the adapter fixing projections.

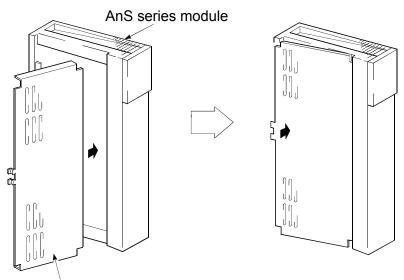
#### 5.2.2 Installing/removing the dustproof cover

Before installing the AnS series module to the A1ADP, attach the dustproof cover for the A1ADP-XY/SP, included with the A1ADP, to the module.

If no dustproof cover is attached, foreign matter will enter the module, resulting in a failure. Furthermore, internal parts of the module may be flied in the short circuit test or when an overcurrent or overvoltage is accidentally applied to the external I/O section.

#### (1) Installation

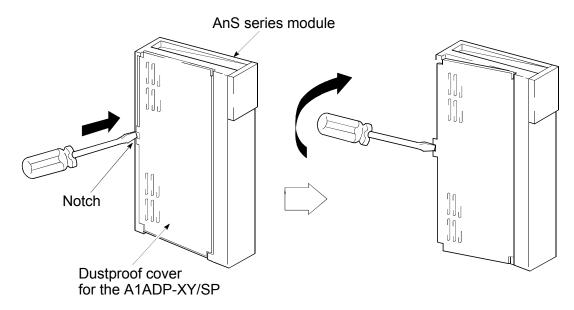
To installation the dustproof cover into the AnS series module, first insert the cover to the terminal side and then press the dustproof cover against the module as shown in the figure.



Dustproof cover for the A1ADP-XY/SP

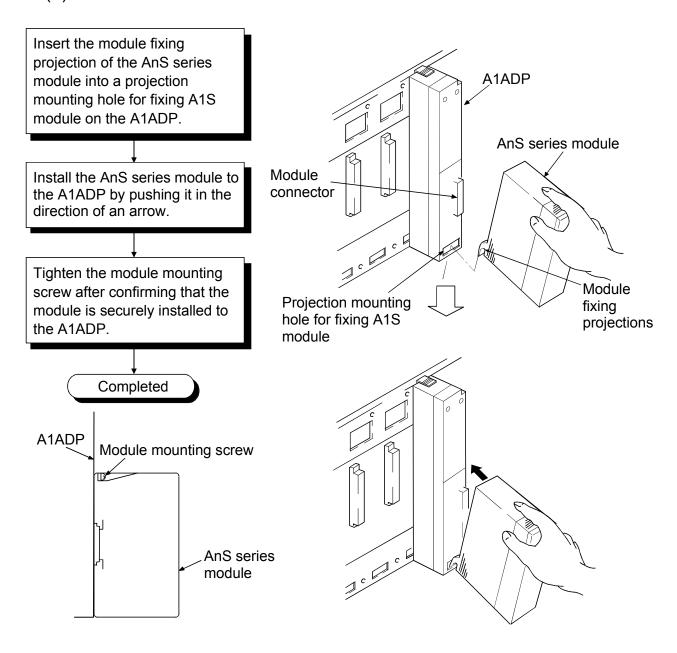
#### (2) Removal

To remove the dustproof cover from the I/O module, insert the tip of a flat-head screwdriver into the hole as shown in the figure, then pry the tab of the cover out from the hole using the screwdriver.



#### 5.2.3 Installing/removing the AnS series module

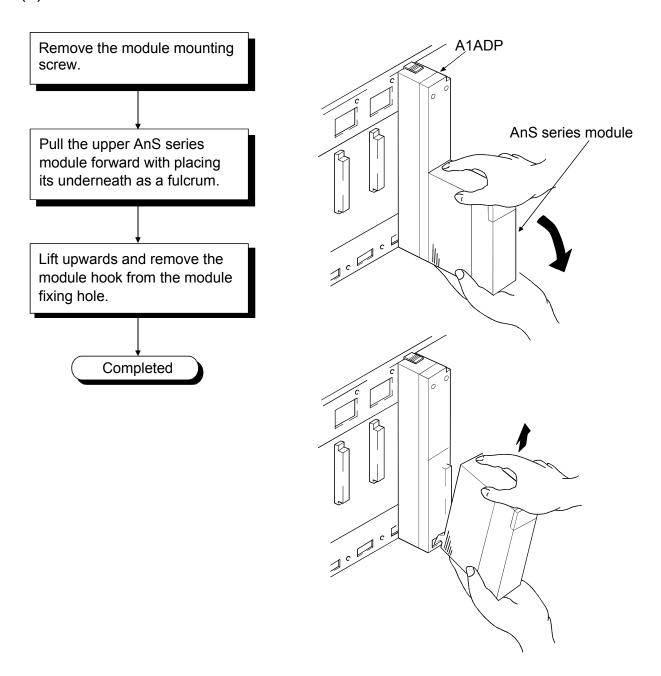
#### (1) AnS series module installation



#### POINT

For fixing the AnS series module, insert the module fixing projection into the module fixing hole. Forceful installation may damage the module connector and/or A1ADP.

#### (2) AnS series module removal

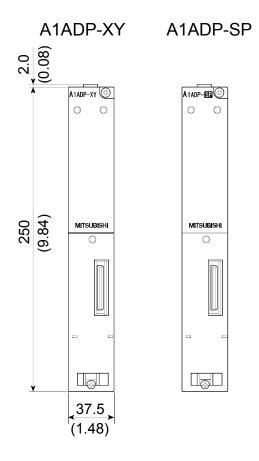


#### POINT

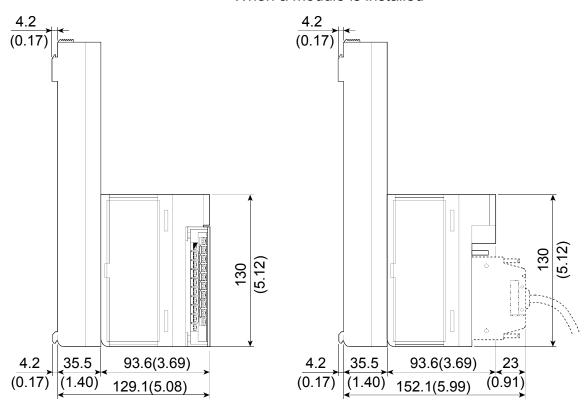
For removing the AnS series module, untighten the module mounting screw first and then remove the module fixing projection from the module fixing hole. Forceful installation may damage the module connector and/or A1ADP.

## **6. EXTERNAL DIMENSIONS**

The external dimensions of the A1ADP are shown below.



When a module is installed



Unit: mm (inch)

## **7. COMPATIBLE MODELS LIST**

This section describes the AnS series modules that can be installed to the A1ADP.

Product	Model	Applicable adapter	Product	Model	Applicable adapter
	A1SX10	XY		A1SH42	XY
	A1SX10EU	XY	I/O readille	A1SH42-S1	XY
	A1SX20	XY	I/O module	A1SX48Y58	XY
	A1SX20EU	XY		A1SX48Y18	XY
	A1SX30	XY	Dynamic scan	A1S42X	XY
	A1SX40	XY	input module	A1542A	^1
	A1SX40-S1	XY	Dynamic scan	A1S42Y	XY
	A1SX40-S2	XY	output module	A13421	^1
	A1SX41	XY	Dummy module	A1SG62	XY
	A1SX41-S1	XY	Interrupt	A1SI61	XY
Input module	A1SX41-S2	XY	module	AISIOI	^1
	A1SX42	XY	Pulse catch	A1SP60	XY
	A1SX42-S1	XY	module	AISPOU	^1
	A1SX42-S2	XY	Analog timer	A1ST60	VV
	A1SX71	XY	module	A13100	XY
	A1SX80	XY	Analog input	A1S64AD	SP
	A1SX80-S1	XY	module	A1S68AD	SP
	A1SX80-S2	XY	Analog output	A1S62DA	SP
	A1SX81	XY	Analog output module	A1S68DAI	SP
	A1SX82-S1	XY	module	A1S68DAV	SP
	A1SX81-S2	XY	Analog I/O	A1S63ADA	SP
	A1SY10	XY	module	A1S66ADA	XY
	A1SY10EU	XY	Temperature	A1S62RD3N	SP
	A1SY14EU	XY	input module	A1S62RD4N	SP
	A1SY18A	XY	input module	A1S68TD	SP
	A1SY18AEU	XY		A1S62TCTT-S2	SP
	A1SY22	XY		A1S62TCRTBW-S2	SP
	A1SY28A	XY		A1S62TCRT-S2	SP
	A1SY40	XY	Temperature	A1S62TCTTBW-S2	SP
Output	A1SY41	XY	control module	A1S64TCTT-S1	SP
module	A1SY42P	XY		A1S64TCTTBW-S1	SP
	A1SY50	XY		A1S64TCRT-S1	SP
	A1SY60	XY		A1S64TCRTBW-S1	SP
	A1SY60E	XY		A1SD61	SP
	A1SY68A	XY	High-speed	A1SD62	SP
	A1SY71	XY	counter module	A1SD62E	SP
	A1SY80	XY		A1SD62D	SP
	A1SY81	XY		A1SD62D-S1	SP
	A1SY82	XY			

XY: A1ADP-XY SP: A1ADP-SP

Product	Model	Applicable adapter	Product	Model	Applicable adapter	
	A1SD75M1	SP	JEMANET			
	A1SD75M2	SP	(OPCN-1)	A1SJ71J92-S3	SP	
Positioning	A1SD75M3	SP	interface module			
module	A1SD75P1-S3	SP	B/NET interface	A1SJ71B62-S3	0.0	
	A1SD75P2-S3	SP	module	A 1807 1802-83	SP	
	A1SD75P3-S3	SP		A1SJ71UC24-R2	SP	
Position detection module	A1S62LS	SP	Computer link module	A1SJ71UC24- PRF	SP	
Intelligent	A1SD51S	SP		A1SJ71UC24-R4	SP	
communication	AISUSIS	SP		A1SJ71LP21	SP	
	A1SJ71E71N-B2	SP		A1SJ71BR11	SP	
	A1SJ71E71N-B5	SP	MELSECNET/10	A1SJ71LR21	SP	
Ethernet module	A1SJ71E71N3-T	SP	network module	A1SJ71QLP21	SP	
Ethernet module	A1SJ71QE71N-B2	SP		A1SJ71QLR21	SP	
	A1SJ71QE71N-B5	SP		A1SJ71QBR11	SP	
	A1SJ71QE71N3-T	SP	AS-i master module	A1SJ71AS92	SP	
Serial communication	A1SJ71QC24N	SP	Modem interface module	A1SJ71CMO-S3	SP	
module	A1SJ71QC24N-R2	SP	PC fault detection module	A1SS91	SP	
MELSECNET/B data link module	A1SJ71AT21B	SP	Memory card interface module	A1SD59J-S2	SP	
	A1SJ71AP21	SP	ID interface	A1SD35ID1	SP	
MELSECNET	A1SJ71AR21	SP	module	A1SD35ID2	SP	
data link module	A1SJ71AP23Q	SP		A1SJ71UC24	SP	
data iirik module	A1SJ71AR23Q	SP	MODBUS	-R2-S2	SF .	
	A1SJ71AT23BQ	SP	module	A1SJ71UC24	SP	
CC-Link master/	A1SJ61BT11	SP		-R4-S2	SF	
local module	A1SJ61QBT11	SP	Profibus-DP	A1SJ71PB92D	SP	
MELSECNET/			interface module	A1SJ71PB93D	SP	
MINI-S3 master module	A1SJ71PT32-S3	SP	Profibus-FMS interface module	A1SJ71PB96F	SP	
MELSEC-I/O LINK master module	A1SJ51T64	SP	DeviceNet master module	A1SJ71DN91	SP	

XY: A1ADP-XY SP: A1ADP-SP

#### 8. REPLACEABLE MODULES LIST

The following lists the A/QnA (large type) series modules that can be replaced by the A1ADP + AnS series module.

#### 8.1 How to See the List

Product	Related model for discontinuation	Transition to the AnS series						
	A series model	AnS series model		Restrictions	Applicable adapter			
Ethernet module	AJ71E71N-B2 670mA	A1SJ71E71N -B2 660mA	0	No restrictions	SP			
Input module	AX50-S1 55mA	None	×	<ul> <li>Alternating with A1SX40 is recommended.</li> <li>1) External wiring: Changed     Connect a 4.7kΩ (1/2W or more) to the     external signal wire serially.</li> <li>2) Number of slots: Not changed</li> <li>3) Program     Number of occupied I/O points:     Not changed</li> <li>4) Specifications     Rated input voltage: Not changed     Rated input current: Changed     ON voltage/ON current: Changed     OFFvoltage/OFF current: Changed     Input resistance: Changed</li> <li>5) Functions: Not changed</li> </ul>	Not used			
			$\overline{}$					
i	ii	iii		iv	V			

### Description

- i ... Classifies the transition list by a product.
- ii ... Indicates each module name of the A series and its 5VDC internal current consumption.
- iii ... Indicates each module name of the AnS series and its 5VDC internal current consumption.

5VDC internal current consumption for the A1ADP + AnS series module is calculated by adding the 5VDC internal current consumption for the A1ADP to this value.

For the A1ADP-XY: The value above + 3.4mA For the A1ADP-SP: The value above + 0mA

iv ... Indicates whether any restriction is given or not when mounting the A1ADP + AnS module (A module with the name provided in the Model column.).

0	No restrictions
Δ	Partially restricted.
Δ	The restriction outline is described in the Remark (restrictions) column.
V	No alternative model
×	The alternating method is described in the Remark (restrictions) column.
× (△ as for	The performance specifications are compatible while the module cannot
specifications)	be mounted due to the expanded module width.

#### v ... Indicates an installable A1ADP model.

XY	A1ADP-XY (An adapter only for I/O modules)
SP	A1ADP-SP (An adapter only for special function modules)
Not used	Either of the A1ADPs cannot be installed.

#### **POINT**

- (1) When replacing the A series module by the A1ADP + AnS series module, the internal current consumption may increase. At replacement, make sure to check the 5VDC internal current consumption of the modules before and after replacement. If the 5VDC internal current consumption increases after the replacement, confirm that the current consumption of the modules used does not exceed the rated output current of the power supply module used.
- (2) When the A1ADP + AnS series module is installed to an extension base unit not needing a power supply module (A52B, A55B, or A58B) in the case that the increase in 5VDC internal current consumption may cause, voltage drop increases in the extension cable. Therefore, recalculating the receiving end voltage is required. (For confirmation method, refer to the "Application standards of Extension Base Units" (A52B, A55B, or A58B) in the CPU module's User's Manual.)
- (3) If the execution of (1) or (2) results in excess of rated output current of a power supply module, or drop of receiving port voltage to less than 4.75VDC, take the following measures.
  - 1) Review the system configuration.
  - 2) Do not use the transition models.
- (4) As for the following nine models, the current consumption is greatly increased by the transition. Pay special attention to the models in (1) to (3) above.
  - 1)  $AY41(230mA) \rightarrow A1SY41(500mA)$
  - 2) AY41-UL(230mA) → A1SY41(500mA)
  - 3)  $AY70(100mA) \rightarrow A1SY71(400mA)$
  - 4) AY81(230mA) → A1SY81(500mA)
  - 5) AY82ÈP(290mA) → A1SY82(930mA)
  - 6) AH42(245mA) A1SH42(500mA)
  - 7) A68DÀI-S1(150mA) → A1S68DAI(850mA)
  - 8) A68DAV(150mA) → A1S68DAV(650mA)
  - 9) AJ71E71N-T(400mA) → A1SJ71E71N3-T(690mA)

## 8.2 List of Transition from the A Series to AnS Series

	Related model for		Transition to the AnS series						
Product	discontinuation								
	A series model	AnS series model			Restrictions	Applicable adapter			
Input module	AX10	A1SX10	Δ	4)	External wiring: Changed Screw size: M3→M3.5 Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed	XY			
	AX10-UL	50mA A1SX10	Δ	1)	External wiring: Changed Screw size: M3¬M3.5 Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed	XY			
	55mA	50mA		5)	Functions: Not changed				
	AX11 110mA	A1SX10 50mA	Δ	1) 2) 3) 4)	External wiring: Changed Screw size: M3→M3.5 Number of slots: Changed (2 modules required) Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed	XY			
	AX11EU	A1SX10EU	Δ		External wiring: Changed Number of slots: Changed (2 modules required) Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed	XY			

Product	Related model for discontinuation	Transition to the AnS series							
	A series model	AnS series model			Restrictions	Applicable adapter			
Input module	AX20	A1SX20	Δ	4)	Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed	XY			
	AX20-UL	50mA A1SX20	Δ	1) 2) 3) 4)	Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed	XY			
	55mA AX21	50mA A1SX20 50mA	Δ	1) 2) 3)	(2 modules required) Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated input voltage: Changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed	XY			
	AX21EU	A1SX20EU	Δ	1) 2) 3) 4)	External wiring: Changed Number of slots: Changed (2 modules required) Program Number of occupied I/O points: Not changed (32=16×2)	XY			

Product	Related model for discontinuation	Transition to the AnS series							
	A series model	AnS series model			Restrictions	Applicable adapter			
Input module	AX31	A1SX30	Δ	4)	External wiring: Changed Screw size: M3→M3.5 Number of slots: Changed (2 modules required) Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated input voltage: Changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed	XY			
	AX31-S1	A1SX41	Δ	1) 2) 3)	External wiring: Changed (Connector terminal block must be converted.) Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed	XY			
	110mA AX40	80mA A1SX40	Δ	1) 2) 3) 4)	External wiring: Changed Screw size: M3→M3.5 Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed	XY			
	AX40-UL	A1SX40	Δ	1) 2) 3) 4)	External wiring: Changed Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed	XY			

	Related model for	Transition to the AnS series							
Product	discontinuation								
	A series	AnS series		Restrictions '					
	model	model		1		adapter			
Input module	AX41	A1SX41	Δ	1)	(Connector terminal block must be	XY			
				2)	converted.) Number of slots: Not changed				
				,	Program				
					Number of occupied I/O points: Not				
				4)	changed Specifications				
				.,	Rated input voltage: Not changed				
					Rated input current: Changed				
					ON voltage/ON current: Changed OFF voltage/OFF current: Changed				
					Input resistance: Changed				
	110mA	80mA		5)	Functions: Not changed				
	AX41-UL	A1SX41	Δ	1)		XY			
					(Connector terminal block must be converted.)				
				2)	Number of slots: Not changed				
				3)	Program				
					Number of occupied I/O points: Not				
				4)	changed Specifications				
				7)	Rated input voltage: Not changed				
					Rated input current: Changed				
					ON voltage/ON current: Changed				
					OFF voltage/OFF current: Changed Input resistance: Changed				
	110mA	80mA		5)	•				
	AX41-S1	A1SX41-S1	Δ	1)	External wiring: Changed	XY			
					(Connector terminal block must be				
				2)	converted.)				
				2)	Number of slots: Not changed Program				
				0)	Number of occupied I/O points: Not changed				
				4)	Specifications				
					Rated input voltage: Changed (12VDC not				
					applicable) Rated input current: Changed				
					ON voltage/ON current: Changed				
					OFF voltage/OFF current: Changed				
					Input resistance: Changed				
					Functions: Not changed				
				(0)	Since internal current consumption increases by combination with the				
					A1ADP-XY, checking power capacity and				
					receiving end voltage is required (Refer to				
	110mA	120mA			POINT (1) to (3)).				

Product	Related model for discontinuation	Transition to the AnS series						
Troduct	A series model	AnS series model		Restrictions	Applicable adapter			
Input module	AX42	A1SX42	Δ	<ol> <li>External wiring: Not changed</li> <li>Number of slots: Not changed</li> <li>Program         <ul> <li>Number of occupied I/O points: Not changed</li> </ul> </li> <li>Specifications         <ul> <li>Rated input voltage: Not changed</li> <li>Rated input current: Changed</li> <li>ON voltage/ON current: Changed</li> <li>OFF voltage/OFF current: Changed</li> <li>Input resistance: Changed</li> </ul> </li> <li>Functions: Not changed</li> </ol>	XY			
	AX42-S1	A1SX42-S 1	Δ	<ol> <li>External wiring: Not changed</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not changed     </li> <li>Specifications         Rated input voltage: Changed (12VDC not applicable)         Rated input current: Changed         ON voltage/ON current: Changed         OFF voltage/OFF current: Changed         Input resistance: Changed     </li> <li>Functions: Not changed</li> <li>Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to</li> </ol>	XY			
	120mA AX50-S1	None	×	<ul> <li>(3)).</li> <li>Alternating with A1SX40 is recommended.</li> <li>1) External wiring: Changed     Connect a 4.7kΩ (1/2W or more) to the     external signal wire serially.</li> <li>2) Number of slots: Not changed</li> <li>3) Program     Number of occupied I/O points: Not changed</li> <li>4) Specifications     Rated input voltage: Changed     Rated input current: Changed     ON voltage/ON current: Changed     OFF voltage/OFF current: Changed     Input resistance: Changed</li> <li>5) Functions: Not changed</li> </ul>	Not used			

Product	Related model for discontinuation	Transition to the AnS series								
	A series model	AnS series model		Restrictions						
Input module	AX60-S1	None	×	1) Exte Conr exter 2) Num 3) Prog Num chan 4) Spec Rate Rate ON v	ber of occupied I/O points: Not	adapter Not used				
	55mA	1.1057=1		5) Fund	ctions: Not changed	100				
	55mA	75mA	Δ	(Conconv 2) Num 3) Prog Num 4) Spec Rate ON v OFF Input 5) Func 6) Since incre A1Al recei	ber of occupied I/O points: Changed cifications d input voltage: Not changed d input current: Changed voltage/ON current: Changed voltage/OFF current: Changed t resistance: Changed ctions: Not changed e internal current consumption cases by combination with the DP-XY, checking power capacity and iving end voltage is required (Refer to NT (1) to (3)).	XY				
	AX70-UL	A1SX71		(Conconv2) Num 3) Prog Num 4) Spec Rate ON N OFF Input 5) Func 6) Since incre A1AI recei	rnal wiring: Changed inector terminal block must be rerted.) iber of slots: Not changed iram iber of occupied I/O points: Changed cifications input voltage: Not changed input current: Changed voltage/ON current: Changed voltage/OFF current: Changed it resistance: Changed internal current consumption is ease by combination with the DP-XY, checking power capacity and iving end voltage is required (Refer to NT (1) to (3)).	XY				

Product	Related model for discontinuation	Transition to the AnS series						
	A series model	AnS series model			Restrictions	Applicable adapter		
Input module	AX71	A1SX71	Δ	1) 2) 3) 4)	External wiring: Changed (Connector terminal block must be converted.) Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed	XY		
	AX80	A1SX80	Δ	1) 2) 3) 4)	External wiring: Changed Number of slots: Not changed Program Number of occupied I/O points: Not changed	XY		
	AX80-UL	A1SX80	Δ	5) 1) 2) 3) 4)	External wiring: Changed Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed	XY		
	55mA AX80E	50mA A1SX80-S1 50mA	Δ		Functions: Not changed External wiring: Changed Screw size: M3→M3.5	XY		

	Related model for	Transition to the AnS series						
Product	discontinuation							
	A series model	AnS series model Restrictions			Applicable adapter			
Input module	110mA	A1SX81	Δ	<ol> <li>External wiring: Changed         (Connector terminal block must be         converted.)</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not         changed</li> <li>Specifications         Rated input voltage: Not changed         Rated input current: Changed         ON voltage/ON current: Changed         OFF voltage/OFF current: Changed         Input resistance: Changed</li> <li>Functions: Not changed</li> </ol>	XY			
	AX81B	None	×	Alternating with A1SX81 is recommended.  1) External wiring: Changed   (Connector terminal block must be   converted.)  2) Number of slots: Not changed  3) Program   Number of occupied I/O points: Changed  4) Specifications   Rated input voltage: Not changed   Rated input current: Changed   ON voltage/ON current: Changed   OFF voltage/OFF current: Changed   Input resistance: Changed  5) Functions:   The wire breakage detection function not	Not used			
	55mA AX81-S1	A1SX81	Δ	provided  1) External wiring: Changed (Connector terminal block must be converted.)  2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY			

Product   A series   AnS series   model   Restrictions   Applicable adapter   Module		Related model			Transition to the AnC covice							
Aseries model   Anseries model   Restrictions   Applicable adapter module   Ax81-52   None   X   Alternating with A1SX81 is recommended.   External wiring: Changed (Connector terminal block must be converted.)   Connect a 3.3kΩ (1/2W or more) or 8.2kΩ (1W or more) resistor serially to the external signal wire at 48VDC or 60VDC, respectively.   Number of slots: Not changed   Program Number of occupied I/O points: Not changed   Program Number of occupied I/O points: Not changed   Program Number of slots: Not changed   Progr	Product	for discontinuation		Transition to the And series								
Total   Seternal wiring: Changed (Connector terminal block must be converted.)   Connect a 3.8kΩ (1/2W or more) or 8.2kΩ (1/W or more) presistor serially to the external signal wire at 48VDC or 60VDC, respectively.		A series			Restrictions	Applicable adapter						
AX81-S3  A1SX80-S1  A1			None	×	<ol> <li>External wiring: Changed         (Connector terminal block must be         converted.)         Connect a 3.3kΩ (1/2W or more) or 8.2kΩ         (1W or more) resistor serially to the         external signal wire at 48VDC or 60VDC,         respectively.</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not         changed</li> <li>Specifications         Rated input voltage: Changed         Ared input current: Changed         ON voltage/ON current: Changed         OFF voltage/OFF current: Changed         Input resistance: Changed</li> </ol>	Not used						
AX82  A1SX82-S1  A1SX8			A1SX80-S1	Δ	<ol> <li>External wiring: Changed         Screw size: M3→M3.5</li> <li>Number of slots: Changed         (2 modules required)</li> <li>Program         Number of occupied I/O points: Changed</li> <li>Specifications         Rated input voltage: Changed         (12VDC not applicable)         Rated input current: Changed         ON voltage/ON current: Changed         OFF voltage/OFF current: Changed</li> </ol>	XY						
receiving end voltage is required (Refer to )				Δ	<ol> <li>External wiring: Changed         (D sub→FCN connector)</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not changed</li> <li>Specifications         Rated input voltage: Changed         (12VDC not applicable)         Rated input current: Changed         ON voltage/ON current: Changed         OFF voltage/OFF current: Changed         Input resistance: Changed</li> <li>Functions: Not changed</li> <li>Since internal current consumption increases by combination with the</li> </ol>	XY						

	Related model									
Dun di cat	for			Transition to the AnS series						
Product	discontinuation	AnC corice	I		Applicable					
	A series model	AnS series model		Restrictions	Applicable					
O. 1415 1 14				4) Estemal wising Changed	adapter					
Output module	AY10	A1SY10		<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not changed     </li> <li>Specifications         Rated output voltage: Not changed         Rated output current: Not changed         (However, contact life span is reduced to half.)     </li> <li>Functions: Not changed</li> <li>Since internal current consumption</li> </ol>	XY					
				increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to						
	115mA	120mA		POINT (1) to (3)).						
	AY10A 115mA	A1SY18A 240mA	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Changed         <ul> <li>(2 modules required)</li> </ul> </li> <li>Program             Number of occupied I/O points: Changed</li> <li>Specifications             Rated output voltage: Not changed             Rated output current: Not changed</li> <li>Functions: Not changed</li> <li>Since internal current consumption increases by combination with the         <ul> <li>A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ul> </li> </ol>	XY					
	115mA	A1SY18A 240mA	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Changed         (2 modules required)</li> <li>Program         Number of occupied I/O points: Changed</li> <li>Specifications         Rated output voltage: Not changed         Rated output current: Not changed         Functions: Not changed</li> <li>Functions: Not changed</li> <li>Since internal current consumption         increases by combination with the         A1ADP-XY, checking power capacity and         receiving end voltage is required (Refer to         POINT (1) to (3)).</li> </ol>	XY					

Product	Related model for discontinuation			Transition to the AnS series	
	A series model	AnS series model		Restrictions	Applicable adapter
Output module	AY11	A1SY10 120mA	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not changed     </li> <li>Specifications         Rated output voltage: Not changed         Rated output current: Not changed         (However, contact life span is reduced to half.)     </li> <li>Functions: Changed         (No varistor, relay not replaceable)     </li> <li>Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).     </li> </ol>	XY
	AY11A	A1SY18A 240mA	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Changed         <ul> <li>(2 modules required)</li> </ul> </li> <li>Program             Number of occupied I/O points: Changed</li> <li>Specifications             Rated output voltage: Not changed             Rated output current: Not changed             Rated output current: Not changed</li> <li>Functions: Changed (No varistor)</li> <li>Since internal current consumption increases by combination with the         <ul> <li>A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ul> </li> </ol>	XY
	AY11AEU 115mA	A1SY18A EU 240mA	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Changed         (2 modules required)</li> <li>Program         Number of occupied I/O points: Changed</li> <li>Specifications         Rated output voltage: Not changed         Rated output current: Not changed         Rated output current: Not changed</li> <li>Functions: Changed (No varistor)</li> <li>Since internal current consumption         increases by combination with the         A1ADP-XY, checking power capacity and         receiving end voltage is required (Refer to         POINT (1) to (3)).</li> </ol>	XY

	Related model for				Transition to the AnS series	
Product	discontinuation					
	A series	AnS series			Restrictions	Applicable
Output	model	model		1)	External wiring: Changed	adapter
Output	AY11E	A1SY10	Δ	5)	External wiring: Changed Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) Functions: Changed (No fuse, no varistor) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to	XY
	115mA	120mA			POINT (1) to (3)).	
	AY11EEU 115mA	A1SY10EU 120mA	Δ		External wiring: Changed Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated output voltage: Not changed Rated output current: Not change (However, contact life span is reduced to half.) Functions: Changed (No fuse, no varistor) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY11-UL 115mA	A1SY10	Δ	4) 5)	External wiring: Changed	XY

Product	Related model for discontinuation				Transition to the AnS series	
roddot	A series model	AnS series model			Restrictions	Applicable adapter
Output module	AY13	A1SY10	Δ	2)	External wiring: Changed Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.)	XY
	230mA	120mA		5)	Functions: Not changed	
	230mA	A1SY10		3) 4)	External wiring: Changed Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) Functions: Changed (No fuse)	XY
	AY13EU	A1SY10EU	Δ	3)	External wiring: Changed Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.)	XY
	230mA	120mA		5)	Functions: Not changed	

	Related model for				Transition to the AnS series	
Product	discontinuation				Transition to the Ans series	
1	A series	AnS series			Destrictions	Applicable
	model	model			Restrictions	adapter
Output	AY15EU	A1SY14EU	Δ	1)	External wiring: Changed	XY
module				2)	Number of slots: Changed	
					(2 modules required)	
					Since internal current consumption increases by combination with the	
					A1ADP-XY, when using the two modules,	
					checking power capacity and receiving end	
					voltage is required (Refer to POINT (1) to	
					(3)).	
				3)	Program	
					Number of occupied I/O points:	
				4)	Not changed (32=16×2)	
				4)	Specifications Rated output voltage: Not changed	
					Rated output current: Not changed	
					(However, contact life span is reduced to	
					half.)	
	150mA	120mA		5)	Functions: Not changed	
	AY22	A1SY22	Δ	1)	External wiring: Changed	XY
				2)	Number of slots: Not changed	
				3)	Program	
				4)	Number of occupied I/O points: Not changed Specifications	
				4)	Rated output voltage: Not changed	
					Rated output current: Changed	
					(Output 2A→0.6A)	
	305mA	270mA		5)	Functions: Changed (No fuse, no varistor)	
	AY23	A1SY22	Δ	1)	External wiring: Changed	XY
				2)	Number of slots: Changed	
				2/	(2 modules required)	
				3)	Program  Number of occupied I/O points:	
					Not changed (32=16×2)	
				4)	Specifications	
				'	Rated output voltage: Not changed	
					Rated output current: Not changed	
	590mA	270mA		5)	Functions: Changed (No fast blow fuse)	

Product	Related model for discontinuation			Transition to the AnS series	
	A series model	AnS series model		Restrictions	Applicable adapter
Output module	AY40 115mA	A1SY40P 79mA	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         <ul> <li>Number of occupied I/O points: Not changed</li> </ul> </li> <li>Specifications         <ul> <li>Rated output voltage: Not changed</li> <li>Rated output current: Not changed</li> </ul> </li> <li>Functions: Not changed</li> </ol>	XY
	AY40-UL	A1SY40P	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         <ul> <li>Number of occupied I/O points: Not changed</li> </ul> </li> <li>Specifications         <ul> <li>Rated output voltage: Not changed</li> <li>Rated output current: Not changed</li> </ul> </li> </ol>	XY
	115mA AY40A 190mA	79mA A1SY68A	Δ	<ol> <li>Functions: Not changed</li> <li>External wiring: Changed</li> <li>Number of slots: Changed         <ul> <li>(2 modules required)</li> <li>Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ul> </li> <li>Program         <ul> <li>Number of occupied I/O points: Changed</li> </ul> </li> <li>Specifications         <ul> <li>Rated output voltage: Not changed</li> <li>Rated output current: Not changed</li> <li>Response: Slow</li> </ul> </li> <li>Functions: Not changed</li> </ol>	XY
	AY41 230mA	A1SY41P	Δ	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY

	Related model			Transition to the Ancies	
Product	for discontinuation			Transition to the AnS series	
	A series	AnS series		Doctrictions	Applicable
	model	model		Restrictions	adapter
Output	AY41-UL	A1SY41P	Δ	External wiring: Changed	XY
module				(Connector terminal block must be	
				converted.)	
				2) Number of slots: Not changed	
				3) Program	
				Number of occupied I/O points: Not changed	
				Specifications     Rated output voltage: Not changed	
				Rated output voltage. Not changed  Rated output current: Not changed	
	230mA	141mA		5) Functions: Not changed	
	AY42	A1SY42P	0	External wiring: Not changed	XY
				Number of slots: Not changed	711
				3) Program	
				Number of occupied I/O points: Not changed	
				4) Specifications	
				Rated output voltage: Not changed	
	0.40	470 4		Rated output current: Not changed	
	340mA	170mA		5) Functions: Not changed	<b>Y</b> 07
	AY42-S1	A1SY42P	Δ	External wiring: Not changed     Number of elete: Not changed	XY
				<ul><li>2) Number of slots: Not changed</li><li>3) Program</li></ul>	
				Number of occupied I/O points: Not changed	
				4) Specifications	
				Rated output voltage: Not changed	
				Rated output current: Not changed	
				Response time: Changed	
				(from 0.3ms to 1ms or less)	
	290mA	170mA		5) Functions: Not changed	207
	AY42-S3	A1SY42P	0	External wiring: Not changed     Number of elete: Not changed	XY
				<ul><li>2) Number of slots: Not changed</li><li>3) Program</li></ul>	
				Number of occupied I/O points: Not changed	
				4) Specifications	
				Rated output voltage: Not changed	
				Rated output current: Not changed	
				5) Functions: Changed	
				(The short protection function equivalent to	
	290mA	170mA		fuse included)	<b>Y</b> 07
	AY42-S4	A1SY42P	Δ	External wiring: Changed     (External supply power is required.)	XY
				<ul><li>(External supply power is required.)</li><li>2) Number of slots: Not changed</li></ul>	
				3) Program	
				Number of occupied I/O points: Not changed	
				4) Specifications	
				Rated output voltage: Not changed	
				Rated output current: Not changed	
	500mA	170mA		5) Functions: Not changed	

	Related model for				Transition to the AnS series	
Product	discontinuation A series	AnS series				Applicable
	model	model			Restrictions	adapter
Output module	AY50	A1SY50	△	4) 5)	External wiring: Changed Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated output voltage: Not changed Rated output current: Not changed Functions: Changed (Fuse not replaceable) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY50-UL	A1SY50	Δ	<ul><li>3)</li><li>4)</li><li>5)</li></ul>	. , . , , , , , , , , , , , , , , , , ,	XY
	AY51	A1SY50	Δ	3)	External wiring: Changed Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated output voltage: Not changed Rated output current: Not changed Functions: Not changed	XY

	Related model for				Transition to the AnS series						
Product					Transition to the And Senes						
	A series	AnS series			Restrictions	Applicable					
	model	model		1		adapter					
Output module	AY51-S1	A1SY50	Δ	3)	External wiring: Changed Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). Program Number of occupied I/O points: Not changed (32=16×2) Specifications	XY					
				7)	Rated output voltage: Not changed Rated output current: Not changed						
	230mA	120mA		5)	Functions: Changed (Fuse not replaceable)						
	230mA	120mA	Δ	3) 4) 5)	External wiring: Changed Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). Program Number of occupied I/O points: Not changed (32=16×2) Specifications Rated output voltage: Not changed Rated output current: Not changed Functions: Not changed	XY					
	AY60 115mA	A1SY60		4) 5)	External wiring: Changed Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated output voltage: Changed (48VDC not applicable) Rated output current: Not changed Functions: Not changed Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY					

Product	Related model for discontinuation			Transition to the AnS series	
Troduct	A series model	AnS series model	Applicable adapter		
Output module	AY60E	A1SY60E	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not changed     </li> <li>Specifications         Rated output voltage: Changed (48VDC not applicable)         Rated output current: Not changed     </li> <li>Functions: Not changed</li> <li>Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to</li> </ol>	XY
	115mA AY60S	200mA A1SY60	Δ	POINT (1) to (3)).  1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Changed (48VDC not applicable) Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY60S-UL	A1SY60	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Changed     </li> <li>Specifications         Rated output voltage: Changed         (48VDC not applicable)         Rated output current: Not changed     </li> <li>Functions: Not changed</li> <li>Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ol>	XY

	Related model					
Product	for discontinuation				Transition to the AnS series	
Troduct	A series	AnS series				Applicable
	model	model			Restrictions	adapter
Output module	AY70	A1SY71	4	<ul><li>3)</li><li>4)</li><li>5)</li></ul>	(Connector terminal block must be converted.) Number of slots: Not changed Program Number of occupied I/O points: Changed Specifications Rated output voltage: Not changed Rated output current: Not changed Functions: Not changed Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end	XY
	100mA	400mA			voltage is required (Refer to POINT (1) to (3)).	
	AY70-UL 100mA	A1SY71 400mA	Δ	5) 6)	External wiring: Changed (Connector terminal block must be converted.) Number of slots: Not changed Program Number of occupied I/O points: Changed Specifications Rated output voltage: Not changed Rated output current: Not changed Functions: Not changed Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY71 200mA	A1SY71 400mA	Δ	2) 3) 4)	External wiring: Changed (Connector terminal block must be converted.) Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated output voltage: Not changed Rated output current: Not changed Functions: Not changed Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation			Transition to the AnS series	
i ioddct	A series model	AnS series model		Restrictions	Applicable adapter
Output module	AY72 300mA	A1SY71	Δ	<ol> <li>External wiring: Not changed</li> <li>Number of slots: Changed         (2 modules required)</li> <li>Program         Number of occupied I/O points: Not changed (64=32×2)</li> <li>Specifications         Rated output voltage: Not changed         Rated output current: Not changed         Functions: Not changed</li> <li>Functions: Not changed</li> <li>Since internal current consumption increases by combination with the         A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ol>	XY
	AY80	A1SY80	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not changed     </li> <li>Specifications         Rated output voltage: Not changed         Rated output current: Not changed         Functions: Changed (Fuse not replaceable)     </li> <li>Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).     </li> </ol>	XY
	AY81 230mA	A1SY81	Δ	<ol> <li>External wiring: Changed (Connector terminal block must be converted.)</li> <li>Number of slots: Not changed</li> <li>Program         Number of occupied I/O points: Not changed     </li> <li>Specifications         Rated output voltage: Not changed         Rated output current: Changed         (Output 0.5A→0.1A)     </li> <li>Functions: Not changed</li> <li>Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ol>	XY

Product	Related model for discontinuation				Transition to the AnS series	
	A series model	AnS series model			Restrictions	Applicable adapter
Output module	AY82EP	A1SY82 930mA	Δ	2) 3) 4)	External wiring: Changed (D sub¬FCN connector) Number of slots: Not changed Program Number of occupied I/O points: Not changed Specifications Rated output voltage: Not changed Rated output current: Not changed Functions: Not changed Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
I/O module	AH42 245mA	A1SH42 500mA	Δ	3) 4) 5)	External wiring: Not changed Number of slots: Not changed Program Number of occupied I/O points: Changed (32 points occupied) Specifications Rated output voltage: Changed (12VDC not applicable) Rated output current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
Dynamic scan I/O module	A42XY	A1S42X 80mA A1S42Y 180mA	Δ	3)	External wiring: Changed Number of slots: Changed Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). Program Number of occupied I/O points: Changed (128 points occupied: 64×2) Specifications Rated output voltage: Changed (12VDC not applicable) Rated output current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed Functions: Not changed	XY
Dummy module	AG62 70mA	A1SG62 60mA	0		restrictions	XY

Drodust	Related model for		Transition to the AnS series				
Product	A series model	AnS series model		Restrictions	Applicable adapter		
Blanking module	AG60	A1SG60	0	No restrictions	XY/SP		
Interrupt module	Al61	A1SI61	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         <ul> <li>Number of occupied I/O points: Not changed</li> </ul> </li> <li>Specifications         <ul> <li>Rated output voltage: Not changed</li> <li>Rated output current: Changed</li> <li>ON voltage/ON current: Changed</li> <li>OFF voltage/OFF current: Changed</li> <li>Input resistance: Changed</li> </ul> </li> <li>Functions: Changed         <ul> <li>(Interrupt processing condition can be set in 4-point unit.)</li> </ul> </li> </ol>	XY		
	Al61-S1	A1SI61 57mA	Δ	<ol> <li>External wiring: Changed</li> <li>Number of slots: Not changed</li> <li>Program         <ul> <li>Number of occupied I/O points: Changed</li> <li>(16 points occupied)</li> </ul> </li> <li>Specifications         <ul> <li>Rated output voltage: Not changed</li> <li>Rated output current: Changed</li> <li>ON voltage/ON current: Changed</li> <li>OFF voltage/OFF current: Changed</li> <li>Input resistance: Changed</li> </ul> </li> <li>Functions: Changed         <ul> <li>(Interrupt processing condition can be set in 4-point unit.)</li> </ul> </li> <li>Others: The response time is different.</li> </ol>	XY		
Analog input module	A616AD	None	×	Using the A1S68AD is recommended.  1) External wiring: Changed    (Terminal block is different.)  2) Number of slots: Changed (2 modules required)  3) Program: I/O signals and buffer memory address are changed.  4) Performance specifications change:    8CH/module, input signals    (Only plus current can be input.)  5) Function specifications: Multiplexer function not available	Not used		

	Related model		Transition to the AnC series							
Product	for discontinuation			Transition to the AnS series						
Floudci	A series	AnS series			Applicable					
	model	model		Restrictions	adapter					
Analog	A68AD	A1S68AD	Δ	1) External wiring: Changed	SP					
input				(Terminal block is different.)						
module				2) Number of slots: Not changed						
				3) Program: I/O signals and buffer memory address are changed.						
				4) Performance specifications change:						
				I/O characteristics						
				5) Function specifications:						
				Setting method of the A/D conversion						
				disable function has been changed						
				6) Since internal current consumption						
				increases by combination with the A1ADP-SP, checking power capacity and						
				receiving end voltage is required (Refer to						
	390mA	400mA		POINT (1) to (3)).						
	A68AD-S2	A1S68AD	Δ	1) External wiring: Changed	SP					
				(Terminal block is different.)						
				2) Number of slots: Not changed						
				3) Program: I/O signals and buffer memory address are changed.						
				4) Performance specifications change:						
				I/O characteristics						
				5) Function specifications: Not changed						
				6) Since internal current consumption						
				increases by combination with the						
				A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to						
	390mA	400mA		POINT (1) to (3)).						
	A68ADN	A1S68AD	Δ	External wiring: Changed	SP					
			1	(Terminal block is different.)						
				2) Number of slots: Not changed						
				3) Program: I/O signals and buffer memory						
				address are changed. 4) Performance specifications change:						
				I/O characteristics and resolution						
	400mA	400mA		5) Function specifications: Not changed						
Multi-	A60MX	None	×	Alternating with multiple A1S68AD modules is	Not used					
plexer	650mA			recommended.						
	A60MXRN 350mA	None	×	Using multiple A1S68ADs and perform isolation	Not used					
	A60MXR	None	.,	between channels is recommended.  Using multiple A1S68ADs and perform isolation	Not used					
	500mA	140110	×	between channels is recommended.	1401 4354					
	A60MXTN	None	×	Alternating with multiple A1S68TD modules is	Not used					
	640mA		•	recommended.						
	A60MXT	None	×	Alternating with multiple A1S68TD modules is	Not used					
	800mA			recommended.						

Product	Related model for discontinuation		Transition to the AnS series	
	A series model	AnS series model	Restrictions	Applicable adapter
Analog output module	A616DAI	None	<ul> <li>Using the A1S68DAI is recommended.</li> <li>1) External wiring: Changed         (Terminal block is different.)</li> <li>2) Number of slots: Changed         (2 modules required)</li> <li>3) Program: I/O signals and buffer memory address are changed.</li> <li>4) Performance specifications change:         8CH/module, input current range</li> <li>5) Function specifications:         The relation between the D/A conversion disable channel and the conversion time is changed.</li> </ul>	Not used
	A616DAV	None	Using the A1S68DAV is recommended.  1) External wiring: Changed     (Terminal block is different.)  2) Number of slots: Changed     (2 modules required)  3) Program: I/O signals and buffer memory address are changed.  4) Performance specifications change:     8CH/module, resolution and accuracy  5) Function specifications: The relation between the D/A conversion disable channel and the conversion time is changed.	Not used
	A62DA	A1S62DA	<ol> <li>∆ 1) External wiring: Changed (Terminal block is different.)</li> <li>2) Number of slots: Not changed</li> <li>3) Program: I/O signals and buffer memory address are changed.</li> <li>4) Performance specifications change: I/O characteristics and conversion time</li> <li>5) Function specifications: Not changed</li> <li>6) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ol>	SP

Product	Related model for discontinuation				Transition to the AnS series	
Todact	A series model	AnS series model			Restrictions	Applicable adapter
Analog output module	A62DA-S1	A1S62DA	Δ		External wiring: Changed (Terminal block is different.) Number of slots: Not changed Program: I/O signals and buffer memory address are changed. Performance specifications change: I/O characteristics and conversion time Function specifications: Not changed Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to	SP
	600mA A68DAI-S1	800mA A1S68DAI 850mA	Δ	1) 2) 3) 4) 5) 6)	POINT (1) to (3)).  External wiring: Changed (Terminal block is different.) Number of slots: Not changed Program: I/O signals and buffer memory address are changed. Performance specifications change: Output current range, I/O characteristics, and increased current consumption Function specifications: Not changed Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	A68DAV	A1S68DAV 650mA	Δ	3)	External wiring: Changed (Terminal block is different.) Number of slots: Not changed Program: I/O signals and buffer memory address are changed. Performance specifications change: Output current range, I/O characteristics, and increased current consumption Function specifications: Not changed	SP

	Related model for		Transition to the AnS series					
Product	discontinuation							
	A series	AnS series		Restrictions	Applicable			
_	model	model		LILL AACOOTD	adapter			
Tempera-	A616TD	None	×	Using the A1S68TD is recommended.	Not used			
ture input module				External wiring: Changed     (Terminal block is different.)				
module				Number of slots: Changed				
				(2 modules required)				
				3) Program: I/O signals and buffer memory				
				address are changed.				
				4) Performance specifications change:				
				8CH/module, input temperature range,				
				and conversion accuracy				
				5) Function specifications:				
				The relation between the conversion disable channel and the conversion time is				
	1000mA			changed.				
	A68RD3N	None	×	Using the A1S62RD3N is recommended.	Not used			
	7.001.1201.1	1.101.10	^	External wiring: Changed	1101 4004			
				(Terminal block is different.)				
				2) Number of slots: Changed				
				(4 modules required)				
				3) Program: Changed				
				<ul><li>4) Performance specifications change: 4CH/module</li></ul>				
	940mA			5) Function specifications: Not changed				
	A68RD4N	None	×	Using the A1S62RD4N is recommended.	Not used			
	7.00112 111	110110	^	External wiring: Changed	1101 4004			
				(Terminal block is different.)				
				2) Number of slots: Changed				
				(4 modules required)				
				3) Program: Changed				
				Performance specifications change:     4CH/module				
	410mA			5) Function specifications: Not changed				
High-	AD61	A1SD62	Δ	External wiring: Changed	SP			
speed			Δ	(Terminal block is different.)				
counter				2) Number of slots: Not changed				
module				3) Program: Buffer memory address is				
				changed.				
				4) Performance specifications change:				
				Upward-compatibility 5) Function specifications:				
	300mA	100mA		Upward-compatibility				
	AD61-S1	A1SD62	Δ	External wiring: Changed	SP			
				(Terminal block is different.)				
				2) Number of slots: Not changed				
				3) Program: Buffer memory address is				
				changed.				
				Performance specifications change:     Upward-compatibility				
				5) Function specifications:				
	300mA	100mA		Upward-compatibility				
		•		, , , , , , , , , , , , , , , , , , ,	<u> </u>			

Product	Related model for discontinuation		Transition to the AnS series				
	A series model	AnS series model		Restrictions	Applicable adapter		
Positioning module	AD70	A1SD70	*1	<ol> <li>External wiring: Changed (Terminal block in different.)</li> <li>Number of slots: 1 slot 2 slots</li> <li>Program: Not changed</li> <li>Performance specifications change: Not changed</li> </ol>	Not used		
	300mA	300mA		5) Function specifications: Not changedv			
	AD72 900mA	None	×	No alternative model	Not used		
	AD75M1 700mA	A1SD75M1 700mA	0	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP		
	AD75M2 700mA	A1SD75M2 700mA	0	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP		
	AD75M3 700mA	A1SD75M3 700mA	0	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP		
	AD75P1-S3	A1SD75P1 -S3 700mA	0	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP		
	AD75P2-S3 700mA	A1SD75P2 -S3 700mA	0	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP		
	AD75P3-S3 700mA	A1SD75P3 -S3 700mA	0	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP		

\*1: As for specification,  $\triangle$ 

Product	Related model for discontinuation		Transition to the AnS series					
	A series model	AnS series model		Restrictions	Applicable adapter			
Position detection	A61LS 800mA	None	×	No alternative model	Not used			
module	A62LS-S5 1500mA	None	×	No alternative model	Not used			
	A63LS 1350mA	None	×	No alternative model	Not used			
Intelligent communi- cation	AD51H-S3	A1SD51S 400mA	Δ	The A1SD51S is different from the AD51H-S3 in the following specifications. AD51H-S3 → A1SD51S  1) Number of tasks: 8→2  2) Memory: 300→60kbytes  3) Parallel: Available→None  4) RS-232 connector: 25-pin→9-pin  5) Number of slots: 2→1 (One slot will be an empty slot.)  6) Memory card I/F: 2→0 (File creation is disabled.)  7) LED display not provided  8) Program record medium: Memory card, EPROM→built-in EEPROM	SP			
	AD51-S3 1300mA	A1SD51S 400mA	Δ	Replace the BASIC program with a program for A1SD51S	SP			
Ethernet module	AJ71E71N-B2 670mA	A1SJ71E 71N-B2 660mA	0	No restrictions	SP			
	AJ71E71N-B5 550mA	A1SJ71E 71N-B5 570mA	0	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP			
	AJ71E71N-T	A1SJ71E 71N3-T	0	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP			
	AJ71E71N3-T 690mA	A1SJ71E 71N3-T 690mA	0	No restrictions	SP			

Product	Related model for discontinuation		Transition to the AnS series				
	A series model	AnS series model		Restrictions	Applicable adapter		
MELSEC NET/B data link	AJ71AT21B	A1SJ71AT 21B	0	No restrictions	SP		
module MELSEC	720mA AJ71AP21	660mA A1SJ71AP	0	No restrictions	SP		
NET data link	500mA	21 330mA					
module	AJ71AR21 900mA	A1SJ71AR 21 800mA	0	No restrictions	SP		
CC-Link master/ local module	AJ61BT11	A1SJ61BT 11 400mA	0	No restrictions	SP		
MELSEC NET/MINI -S3 master	AJ71PT32-S3 350mA	A1SJ71PT 32-S3 350mA	Δ	Monitor station function not available	SP		
module	AJ71T32-S3 300mA	A1SJ71PT 32-S3 350mA	Δ	<ol> <li>Monitor station function not available</li> <li>Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).</li> </ol>	SP		
	AJ71T32-S4 300mA	None	×	Changing the system from MELSECNET/MINI-S3 to CC-Link is recommended.	Not used		
MELSEC -I/OLINK master module	AJ51T64 115mA	A1SJ51T64 115mA	0	No restrictions	SP		

	Related model for			Transition to the AnS series	
Product	discontinuation A series	AnS series		Restrictions	Applicable
	model	model		Restrictions	adapter
JEMANET (OPCN-1) interface	AJ71J92-S3	A1SJ71J92 -S3	0	No restrictions	SP
module	500mA	400mA			
B/NET interface module	AJ71B62-S3 170mA	A1SJ71B6 2-S3 80mA	0	No restrictions	SP
Terminal interface module	AJ71C21-S1 900mA	None	×	No alternative model	Not used
Multidrop	AJ71C22-S1	A1SJ71UC	_	The following functions are different.	SP
link module	A371022-31	24-R4	Δ	1) Buffer memory Work area: 61h to 07FF→71h to 0DFFh 2) LED For slave station I/O monitor display: Available→None 3) Setting switch Baud rate setting: Fixed to 38400bps→Settable to 19200/38400 Master/local: Fixed to master→Settable 4) Terminal block screw M4→M3.5 5) Terminal resistor	- Gr
	1400mA	100mA		Built-in⊸externally connected	
Host controller high-speed link	AJ71C23-S3 1500mA	None	×	No alternative model	Not used
Computer link module	AJ71UC24 300mA	A1SJ71UC 24-PRF 100mA A1SJ71UC 24-R2 100mA A1SJ71UC 24-R4 100mA	Δ	<ol> <li>Transmission specification setting switches         When this module meets the following two requirements, turn on the SW03 switch by using the module that has software version X or later.         <ul> <li>For installing the A1SJ71UC24-PRF/R2/R4 to the unit that has a AnACPU.</li> <li>For using the computer link function.</li> </ul> </li> <li>Either the RS-232 connector or RS-422/485 terminal block A1SJ71UC24-PRF/R2/R4 is available.</li> <li>For the A1SJ71UC24-PRF/R2/R4, the linked operation function between the RS-232 and RS-422 is not available.</li> <li>Number of RS-232 connector pins 25-pin⊸9-pin</li> </ol>	SP
	AJ71C24-S1 1400mA	None	×	No alternative model	Not used
	AJ71C24-S7 1400mA	None	×	No alternative model	Not used

Product	Related model for discontinuation			Transition to the AnS series	
	A series model	AnS series model		Restrictions	Applicable adapter
MODBUS module	AJ71UC24-S2 1400mA	A1SJ71UC 24-R2-S2 100mA A1SJ71UC 24-R4-S2 100mA	Δ	Either RS-232 or RS-422/485 interface is available. For AnS series, the linked operation between the RS-232 and RS-422 is not available. RS-232 connector: 25-pin→9-pin	SP
Profibus- DP interface module	AJ71PB92D	A1SJ71PB 92D 560mA	0	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	540mA	A1SJ71PB 93D 360mA	0	No restrictions	SP
Profibus- FMS Interface module	AJ71PB96F 540mA	A1SJ71PB 96F 560mA	0	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
Device Net master module	AJ71DN91 240mA	A1SJ71DN 91 240mA	0	No restrictions	SP
Supersonic linear scale module	A64BTL 1050mA	None	×	No alternative model	Not used
External error check module	AD51FD-S3 1000mA	None	×	No alternative model	Not used
PC fault detection module	AS91 80mA	A1SS91 80mA	0	No restrictions	SP
Vision sensor module	AS25VS 2620mA	None	×	Connecting a commercially available vision sensor and programmable controller with RS232, Ethernet or Digital I/O for data loading is recommended.	Not used
	AS50VS 3300mA	None	×	Connecting a commercially available vision sensor and programmable controller with RS232, Ethernet or Digital I/O for data loading is recommended.	Not used

# 8.3 List of Transition from the QnA Series to AnS Series

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Product	Related model for discontinuation	Transition to the AnS series				
	QnA series model	AnS series model	Restrictions		Applicable adapter	
Ethernet module	AJ71QE71N-B2	A1SJ71Q E71N-B2	0	No restrictions	SP	
	560mA	530mA				
	AJ71QE71N-B5	A1SJ71Q E71N-B5	0	No restrictions	SP	
	400mA	400mA				
	AJ71QE71N-T	A1SJ71Q E71N3-T	0	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to	SP	
	400mA	530mA		POINT (1) to (3)).		
	AJ71QE71N3-T	A1SJ71Q E71N3-T	0	No restrictions	SP	
0 11	530mA	530mA		D0 000 1. 05 0	0.0	
Serial communi-	AJ71QC24N	A1SJ71Q C24N	Δ	RS-232 connector: 25-pin→9-pin	SP	
cation	400mA	350mA				
module	AJ71QC24N-R2	A1SJ71Q C24N-R2	Δ	RS-232 connector: 25-pin→9-pin	SP	
	300mA	300mA				
	AJ71QC24N-R4	A1SJ71Q C24N	Δ	For Q2AS series, use A1SJ71QC24N and connect the RS232-422 converter to 1ch.	SP	
	600mA	350mA				
CC-Link master/ local	AJ61QBT11	A1SJ61Q BT11	0	No restrictions	SP	
module	450mA	100mA				

## 8.4 List of Transition from the Q4AR Series to AnS Series

Product	Related model for discontinuation	Transition to the AnS series				
	Q4AR series model	AnS series model	Restrictions		Applicable adapter	
Ethernet module	AJ71QE71N-B2 560mA	A1SJ71QE 71N-B2 530mA	0	No restrictions	SP	
	AJ71QE71N-B5 400mA		0	No restrictions	SP	
	AJ71QE71N-T 400mA	A1SJ71QE 71N3-T 530mA	0	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP	
	AJ71QE71N3-T 530mA	A1SJ71QE 71N3-T 530mA	0	No restrictions	SP	
Serial communi- cation	AJ71QC24N 400mA	A1SJ71QC 24N 350mA	Δ	RS-232 connector: 25-pin→9-pin	SP	
module	AJ71QC24N-R2 300mA	A1SJ71QC 24N-R2 300mA	Δ	RS-232 connector: 25-pin→9-pin	SP	
	AJ71QC24N-R4 600mA	A1SJ71QC 24N 350mA	Δ	For Q2AS series, use A1SJ71QC24N and connect the RS232-422 converter to 1ch.	SP	

#### Warranty

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

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- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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