3.2.1.4 Models and suffix codes

Nest for I/O Adaptor (for RIO System Upgrade, With I/O Module)

		Description			
Model	A2BA3D	Nest for I/O Adaptor (for RIO System Upgrade, With I/O Module)			
	-3	Always 3			
	3	M4 Screw Terminal type			
	4	ELCO Connector type			
Suffix Codes	0	With no explosion protection			
	0	Basic type			
	1	With ISA Standard G3 option			
	0	Always 0			

3.2.1.5 Accessories (Only for A2BA3D-□3□□□)

Part Number	Description	Quantity
T9081CN	Sheet	1
T9081CF	Cover (Terminal cover)	1
T9081CM	Plate	1

3.2.2 I/O adaptors

I/O adaptors are used for upgrading each of the analog I/O module for RIO.

Ar	nalog I/O modules (RIO)before u	pgrading	I/O adaptors after upgrading			
Model	Name	Number of modules mountable per nest	Model	Name	Number of adaptors mountable per nest	
AAM10	Current/Voltage Input Module (Simplified Type)		A2SAM105	Current Input / Voltage Input Adaptor	Total 16	
AAM11	Current/Voltage Input Module					
AAM11B	Current/Voltage Input Module (for BRAIN)			Totage input taapter		
AAM50	Current Output Module		A2SAM505	Comment Outroot /		
AAM51	Current/Voltage Output Module	Total 16		Current Output / Voltage Output Adaptor		
AAM21	mV, Thermocouple, and RTD Input Module		A2SAT105			
AAM21J	mV, Thermocouple, and RTD Input Module (compliant with JIS C1602: 1995, C1604: 1997)			mV / TC / RTD Input Adaptor		
APM11	Pulse Input Module		A2SAP105	Pulse Input Adaptor		

3.2.3 Field Interface

Signal connection of I/O adaptors

I/O adaptor	Contact terminals/ pins of A2BA3D (*1)	Signal type (*2)							
	□A (*4)	2-wire transmitter input +	NC	NC	_	_			
A2SAM105 (*3)	□В	2-wire transmitter input -	4-wire transmitter Current input +	Voltage input +	_	_			
	□C	NC	4-wire transmitter Current input –	Voltage input –	_	_			
A2SAM505	□A	Current output +	Voltage output +	_	_	_			
	□В	NC (*5)	NC (*5)	_	_	_			
	□С	Current output -	Voltage output -	_	_	_			
A2SAT105	□A	NC	RTD input A (*5)	Potentiometer input100% (*5)	_	_			
	□В	Thermocouple/mV input +	RTD input B	Potentiometer input variable	_	_			
	□С	Thermocouple/mV input -	RTD input B (*5)	Potentiometer input 0% (*5)	_	_			
A2SAP105 (*6)	□A	NC	Contact + (*7) (*8)	NC	Power supply type, 2-wire, power supply	Power supply type, 3-wire, power supply			
	□В	2-wire type (contact) + (*9)	Contact - (*7) (*8) Shunt resistor Connection (*7)	2-wire type (voltage) +	Power supply type, 2-wire, signal, Shunt resistor connection	Power supply type, 3-wire, +			
	□C	2-wire type (contact) - (*9)	Shunt resistor Connection (*7)	2-wire type (voltage) -	Shunt resistor connection	Power supply type, 3-wire, -			

- *1: The field interface of each I/O adaptor consists of three contact terminals ($\Box A$, $\Box B$, and $\Box C$).
- □ represents slot number of the A2BA3D (1 to 16).

 Do not connect anything to "NC." NC terminal or pin is connected to the internal circuit of the I/O adaptor.
- *2: *3: When the A2SAM105 is off power or overcurrent is detected, the current input loop becomes high impedance. Do not share current signals with other receiving devices; or in such case, use it in voltage input mode with a shunt resistor.
- (250 Ω Shunt Resistor Module [Part No.: A1080RZ]) \square A terminal is to output the transmitter power supply. When overcurrent is detected, \square A terminal becomes open. *4:
- Wiring resistances for $\Box A$ and $\Box C$ terminals/pins must be identical.
- □A terminal is to output the transmitter power supply. When the A2SAP105 is off power or overcurrent is detected, □A terminal becomes open. When an external shunt resister is used, it must be fastened together with an input signal wire on the □B terminal.
- When the input frequency is 0 to 10 kHz. *7:
- *8: When the input frequency is 0 to 5 kHz.
- When the input frequency is 0 to 800 Hz.