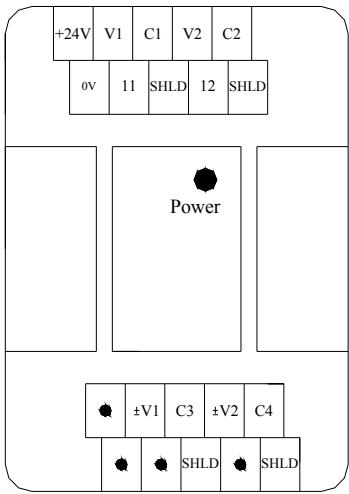
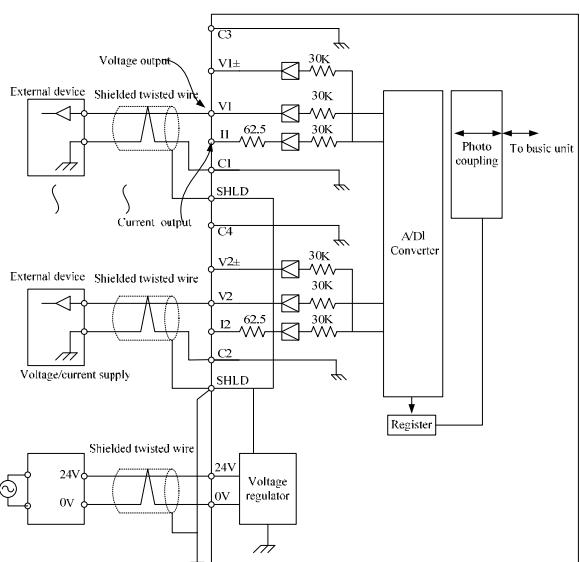
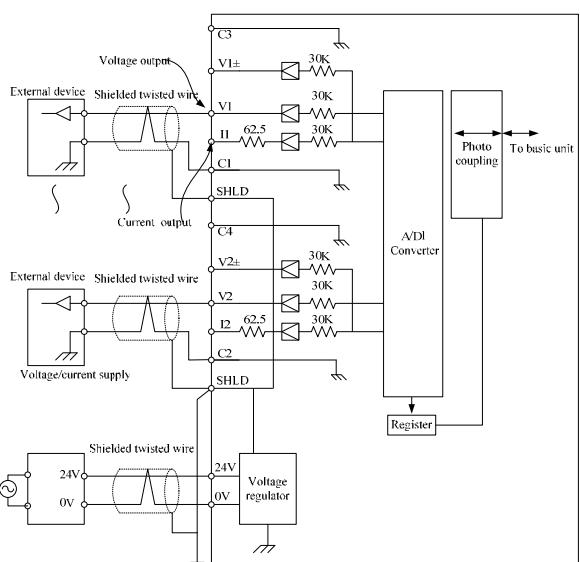


Chapter 3 Expansion unit specification

2.5.5 TP02-2DA+ Specification

Item	Specification		
	Voltage	Current	
Analog output range	0V~10V or 1V~5V, external impedance should be less than 500Ω	0mA~20mA or 4mA~20mA, Principle figure 500Ω .	
Data range	0000(0V)~4000(10V) or 0000(1V)~2000(5V)	0000(0mA)~2000(20mA) or 0000(4mA)~2000(20mA)	
Resolution	2.5 mV	10 μ A	
Accuracy	$\pm 5\%$ or less (at 25 °C)	$\pm 1\%$ or less (0~55 °C)	
Transmit speed	1scan time/ 4 Channel	 <p>The outline figure shows the front and back panels of the expansion unit. The front panel has terminals for +24V, V1, C1, V2, C2, 0V, 11, SHLD, 12, and SHLD. The back panel has terminals for ±V1, C3, ±V2, C4, and four ground pins labeled SHLD.</p>	
Terminal block	V1~V2		
	C1~C2		
	V1±~V2±		
	C3~C4		
	I1~I2		
	SHLD		
	24V		
	0V		
	Power indicator		
Internal power supply	5VDC:Max current 50mA	 <p>The principle figure is a detailed circuit diagram of the TP02-2DA+ expansion unit. It shows the internal components and connections. Key parts include an A/D converter, a register, a voltage regulator, and various resistors (30K, 62.5). The diagram illustrates the signal flow from external devices (voltage/current supply, shielded twisted wires) through the unit to the basic unit via photo coupling.</p>	
External power	24VDC±10%(Consumption current: Max 100 mA)		
Accessory	Installation manual, Expansion cable(TP-042EC : 4cm, 14pin)		
Principle figure	 <p>The principle figure is a detailed circuit diagram of the TP02-2DA+ expansion unit. It shows the internal components and connections. Key parts include an A/D converter, a register, a voltage regulator, and various resistors (30K, 62.5). The diagram illustrates the signal flow from external devices (voltage/current supply, shielded twisted wires) through the unit to the basic unit via photo coupling.</p>		

Chapter 3 Expansion unit specification

2.5.6 TP03-2DA Specification

Item	Specification								
	Voltage		Current						
Analog output range	V0-C0,V1-C1:	0V~10V or 1V~5V	I0-C0,	0mA~20mA or					
	±V0-C2, C1-C3:	-10V~ +10V.	I1-C1:	4mA~20mA.					
	external impendence should be more than 500Ω		external impendence should be less than 500Ω.						
Data range	0000(0V) ~ 4000(10V) or 0000(1V) ~ 2000(5V) or 0000(-10V)~4000(+10V)		0000(0mA) ~ 2000(20mA) or 0000(4mA) ~ 2000(20mA)						
Resolution	2.5 mV		10 μA						
Accuracy	±1% or less (at 25 °C)		±1% or less (0~55 °C)						
Transmit speed	1scan time/ 4 Channel								
Terminal block	V0~V1	Voltage output terminal, output voltage signal between terminal V and C.							
	I0~I1	Current output terminal, output current signal between terminal I and C							
	C0~C1	Common ground for V0~V2,I0~I2							
	V0±~V1±	Voltage output terminal, output voltage signal (-10V~+10V)between V and C terminal (V0,V1 and V0±,V1± can not be used at same time)							
	C2~C3	Common ground for V0±~V1±							
	24V	24VDCPower input terminal(+)							
	0V	24VDCPower input terminal(-)							
	Power indicator	PWR:+24 V Power LED(Green) LINK: Link LED(Green)							
internal power	5VDC:Max current 30mA								
External power	24VDC±10%(Consumption current: Max 100 mA)								
Accessory	Installation manual, Expansion cable(TP-304EC : 6cm, 26pin)								
Principle figure									