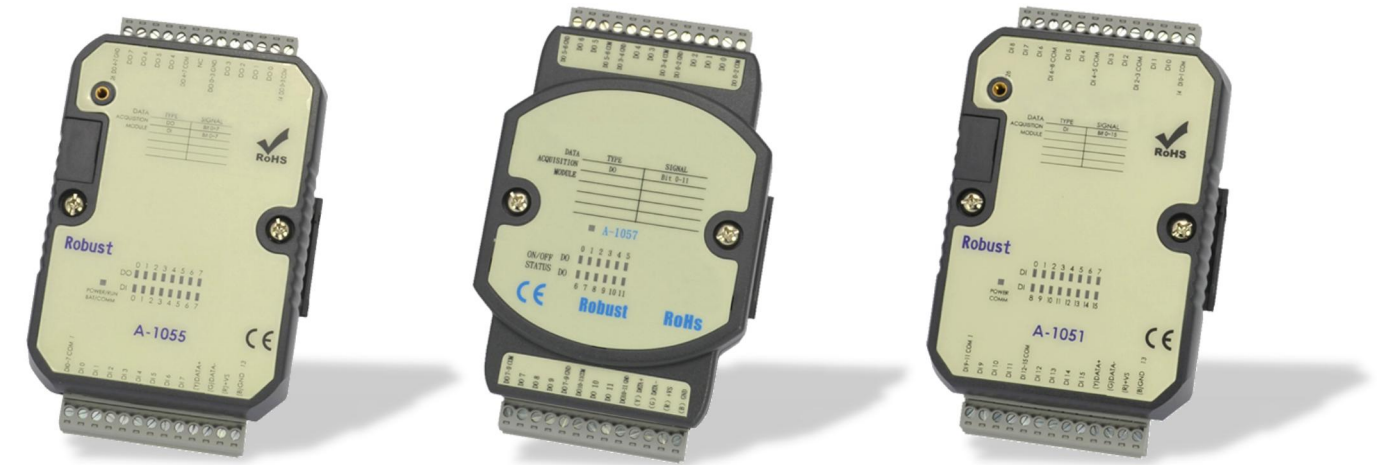


A-10xx Series RS-485 Remote I/O Module

ATC's I/O module with Modbus protocol is a device that can be used to expand the input/output capabilities of a PLC or other automation system. It typically has a number of digital or analog inputs and outputs that can be used to connect to sensors, actuators, and other devices. The I/O module communicates with the PLC or other system using the Modbus protocol. They can be used in a variety of applications, including industrial automation, building automation, and process control.



Digital I/O Module

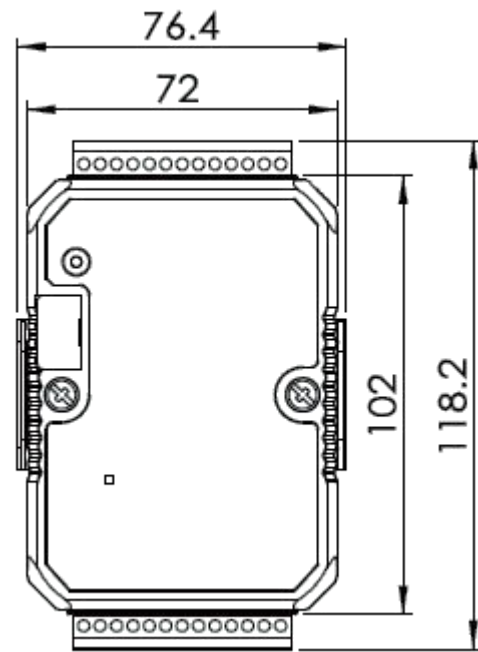
Part No.	A-1057	A-1058	A-1068	A-1069	A-1051		A-1055		A-1055S		A-1060	
Digital Inputs	—	—	—	—	16 DI	Status Low: <1VDC	8 DI	Status Low: <1VDC	8 DI	Status Low: <1VDC	8 DI	Status Low: <1VDC
						Status High: >5~30VDC		Status High: >5~30VDC		Status High: >5~30VDC		Status High: >5~30VDC
Digital Outputs	12 DO Source Transistor	12 DO Sink Transistor	8 DO Signal Relay	8 DO Power Relay	—		8 DO Sink Transistor		8 DO Source Transistor		4 DO Power Relay	
Output Continuous Current	10 ~ 35VDC(1A)	10 ~ 40VDC (200mA)	120VAC(0.5A)/ 30VDC(1A)	250VAC(5A)/ 30VDC(1A)	—		10 ~ 40VDC (200mA)		10 ~ 35VDC(1A)		250VAC(5A)/ 30VDC(1A)	
DI Isolation Voltage	5000VDC											
Input Operating Frequency	10Hz											
Output Operating Frequency	Relay: 10Hz / Transistor: 10Hz											
Communication Interface	RS - 485											
Communication Baud Rate	1200 ~ 115200bps											
Protocol & Serial	MODBUS RTU / MODBUS ASCII, 8bit, Odd Parity / Even Parity / None, 1/2 Bit											
Daul Watchdog Timer	Yes											
Operation Voltage	10~30VDC/24VAC											
Power Consumption	<5W											
Operation Temperature	-20 to +75℃											
Degree Of Protection	IP20											
Installation	35 mm DIN rail / Flush mounting											
Dimension (W×H×D)	76.4×118.2×38.5 mm											
Weight (kg)	0.3	0.3	0.4	0.4	0.3		0.3		0.3		0.35	

A-10xx Series RS-485 Remote I/O Module

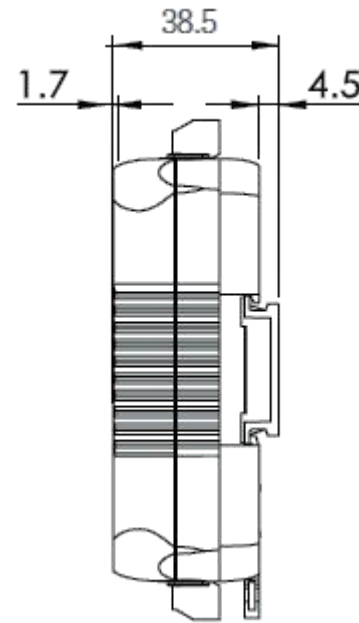
■ Analog I/O Module

Part No.	A-1019		A-1019+	A-1012		A-1012+	A-1010	A-1010+	A-1036+	A-1038+
Digital Inputs	4 DI	Status Low: <1VDC		2 DI	Status Low: <1VDC		—	—	—	—
		Status High: >5~30VDC			Status High: >5~30VDC					
Digital Outputs	—			2 DO Source Transistor			4 DO Sink Transistor		—	—
DO Continuous Current	—			10 ~ 35VDC(1A)			10 ~ 40VDC(200mA)		—	—
DI Isolation Voltage	5000VDC						—			
DI/DO Operating Frequency	10Hz								—	
Analog Inputs	8 AI (16 bit)			4 AI (16 bit)			8 AI (10 bit)		—	—
Analog Input Type	0/4~20mA,J,K,T,E,R,S,B,Thermistor(-270 ~ +1800℃)			2*0/4-20mA + 2*PT100/1000(-200 ~ +600℃)			0 ~ 10V		—	—
Analog Outputs	—			2 AO (12 bit)			2 AO (10 bit)		6 AO (12 bit)	8 AO (12 bit)
Analog Output Type	—			0/4-20mA			0 ~ 10V		0/4-20mA	0 ~ 10V
Input Impedance	Current: 100Ω / Voltage: 10MΩ			Current: 100Ω / RTD: 10MΩ			Voltage: 10MΩ		Current: 100Ω	Voltage: 10MΩ
Analog Input / Output Accuracy	±0.1% / —			±0.1% / ±1%			±1% / ±1%		— / ±1%	— / ±1%
Channel Independent Configuration	Yes									
Sampling Rate	10 sample/second (Total)									
CMR @ 50/60 Hz	120 dB									
Span Drift	±50 ppm / °C									
Zero Drift	±18 μV / °C									
Temperature Ranges	(PT-100:-200~+600℃) (PT-1000:-200~+600℃) (J:-210~760℃) (K:-270~1,370℃) (T:-270~400℃) (E:-270~1,000℃) (R:0~1,750℃) (S:0~1,750℃) (B:0~1,800℃) (Thermistor-10K-T2:0~100℃) (Thermistor-10K-T3:0~100℃) (Thermistor-6.8K:-10~100℃) (Thermistor-4.7K:-10~100℃) (Thermistor-3.3K:-20~100℃) (Thermistor-3K:-20~100℃) (Thermistor-2.7K:-20~100℃) (Thermistor-2.252K:-20~100℃) (Thermistor-2.1K:-30~100℃) (Thermistor-2K:-30~100℃) (Thermistor-1.5K:-40~100℃) (Thermistor-1K:-40~100℃)									
Communication Interface	RS-485 + USB		RS-485	RS-485 + USB		RS-485	RS-485+USB	RS-485	RS-485	RS-485
RS-485 Comm Isolation	—		Yes	—		Yes	—	Yes	Yes	Yes
Communication Baud Rate	2400 ~ 921600bps									
Protocol & Serial	MODBUS RTU / MODBUS ASCII, 8bit, Odd Parity / Even Parity / None, 1/2 Bit									
Daul Watchdog Timer	Yes									
Operation Voltage	10~30VDC/24VAC									
Power Consumption	<5W									
Operation Temperature	-20 to +75℃									
Degree Of Protection	IP20									
Installation	35 mm DIN rail / Flush mounting									
Dimension (W×H×D)	76.4*118.2*38.5 mm									
Weight (kg)	0.3		0.35	0.3		0.35	0.3	0.3	0.35	0.35

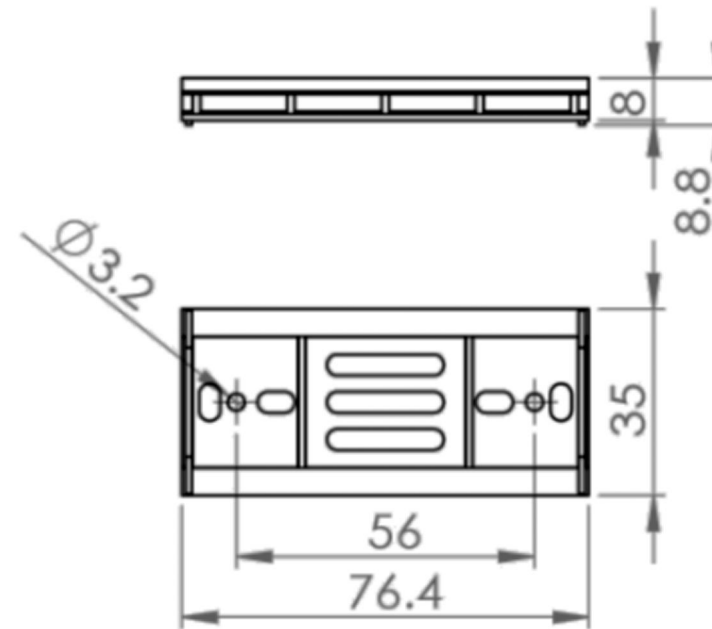
■ Dimension(mm):



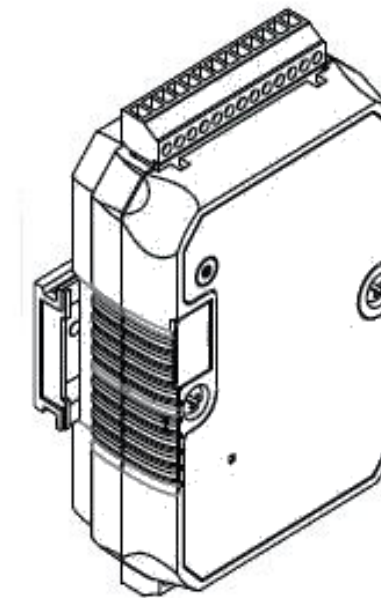
● Top view



● Side view

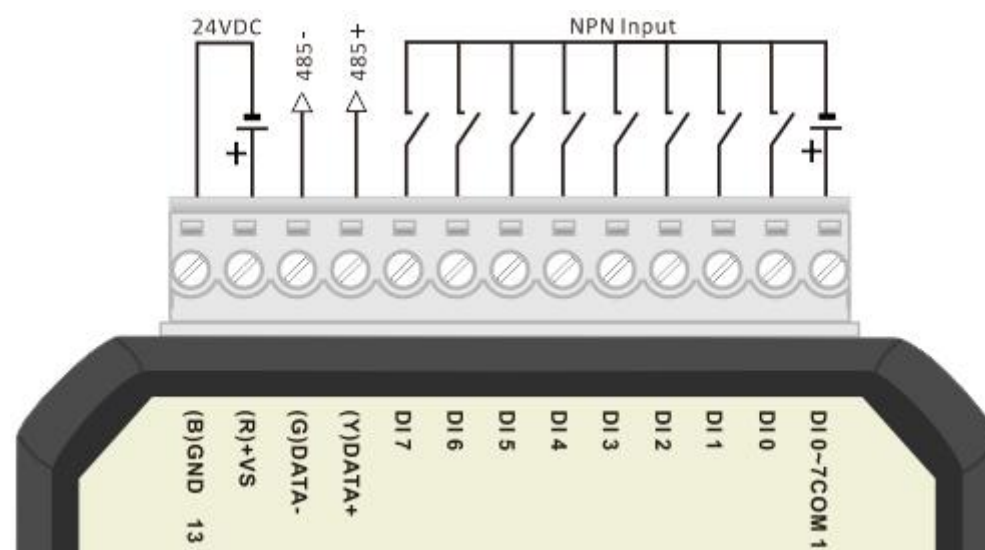


● Accessory rail

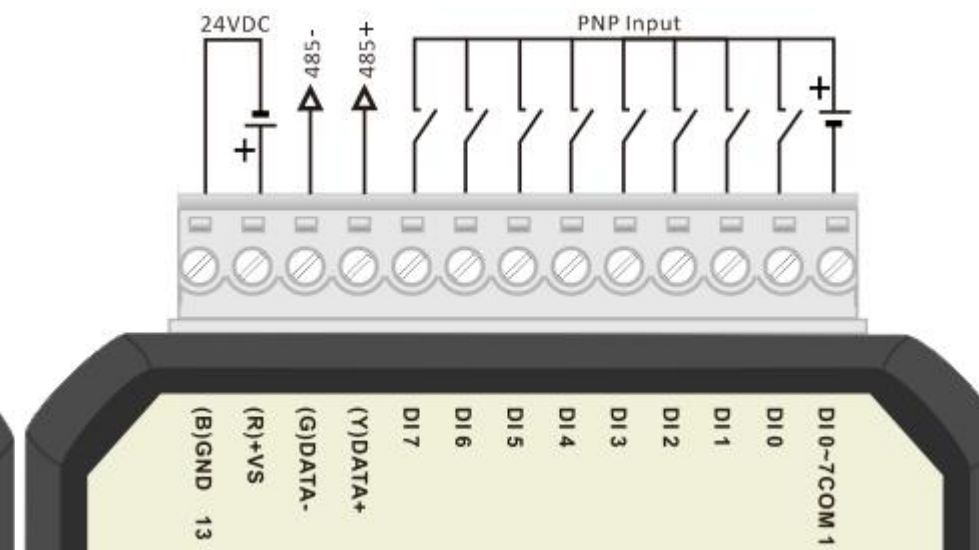


● 3D view

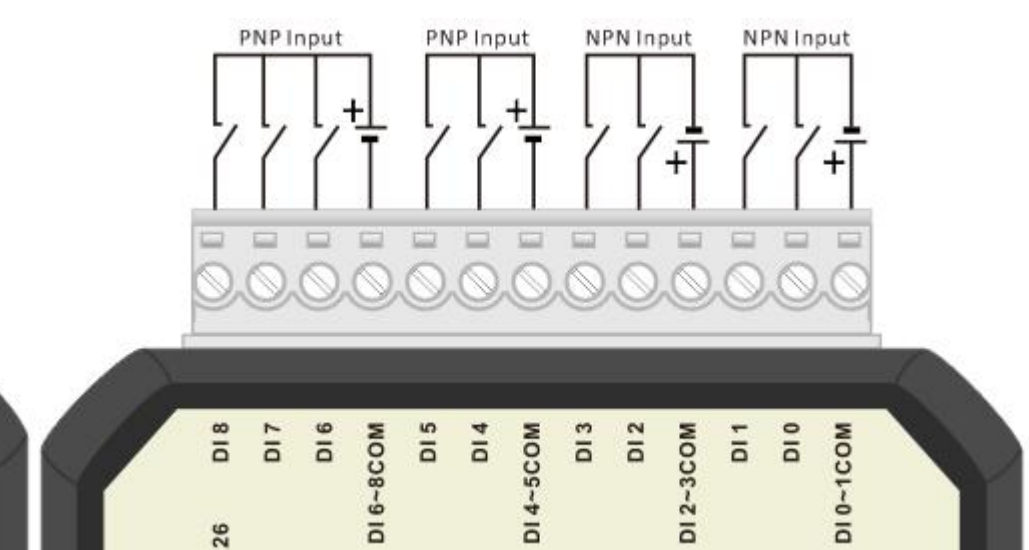
■ Wire Diagram



A-1055/A-1055S/A-1060

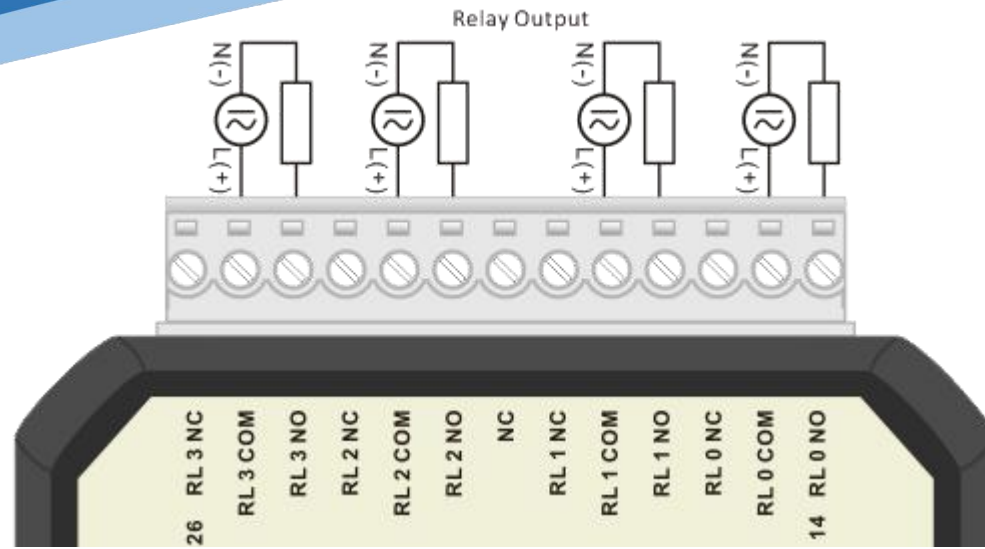


A-1055/A-1055S/A-1060

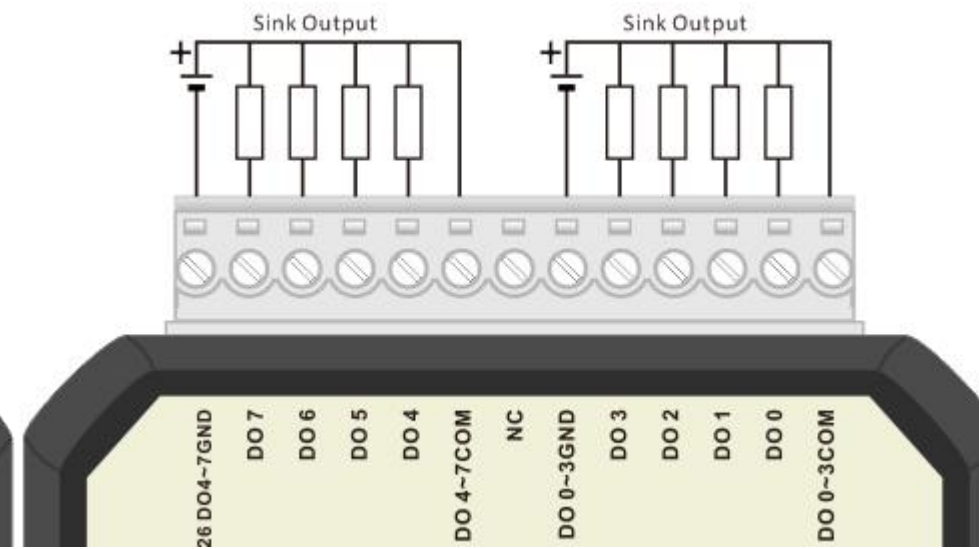


A-1051

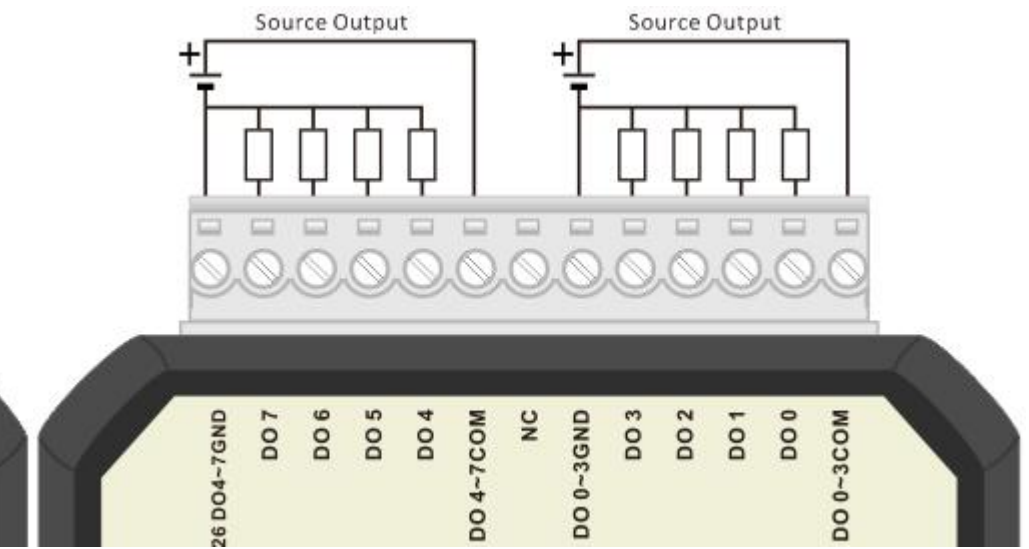
A-10xx Series RS-485 Remote I/O Module



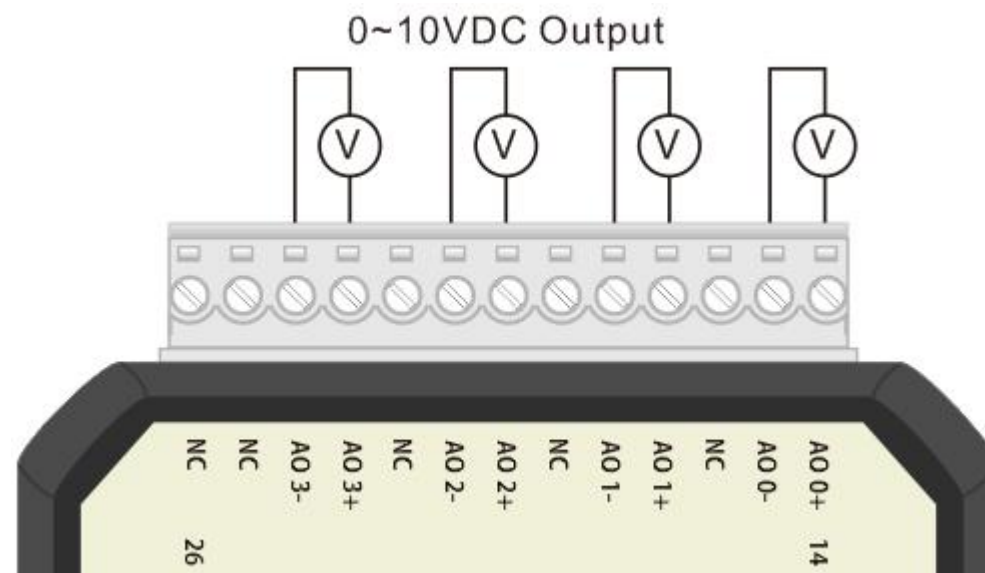
A-1060/A-1068/A-1069



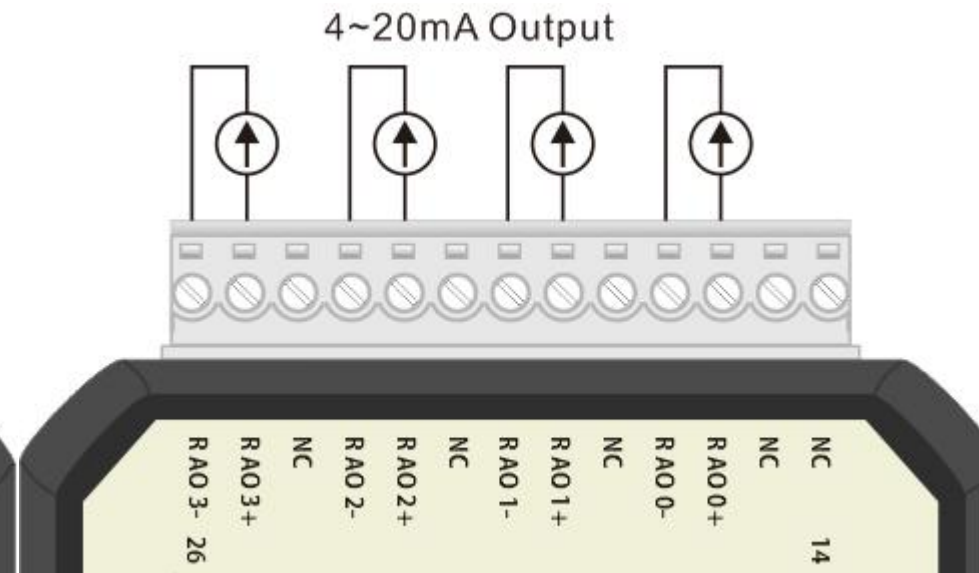
A-1055/A-1058



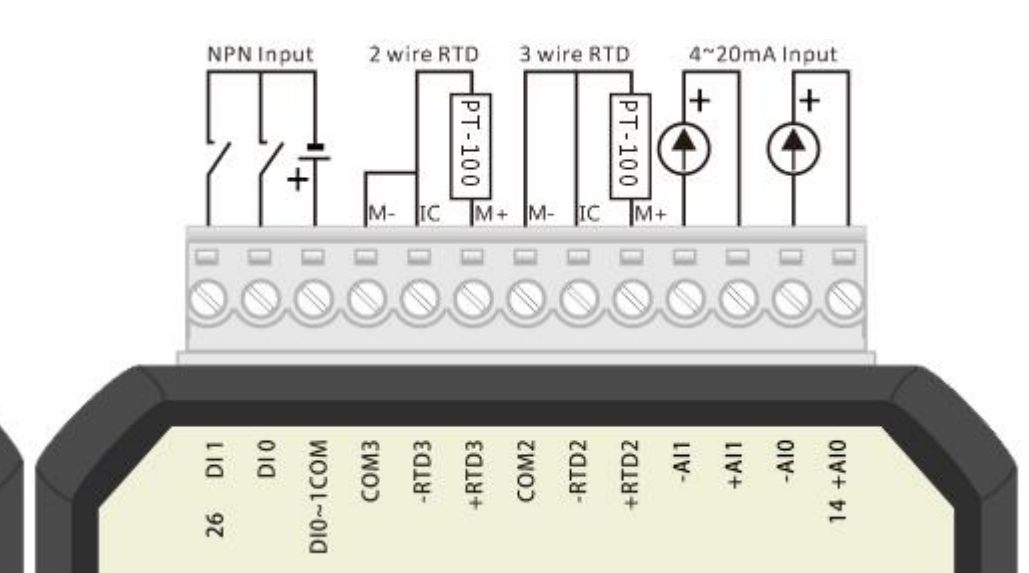
A-1055S/A-1057



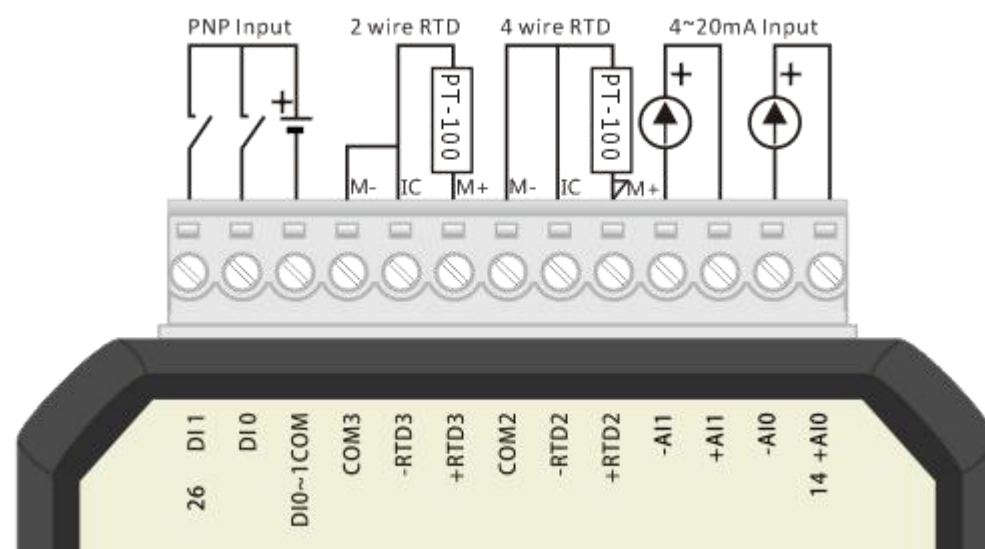
A-1038+



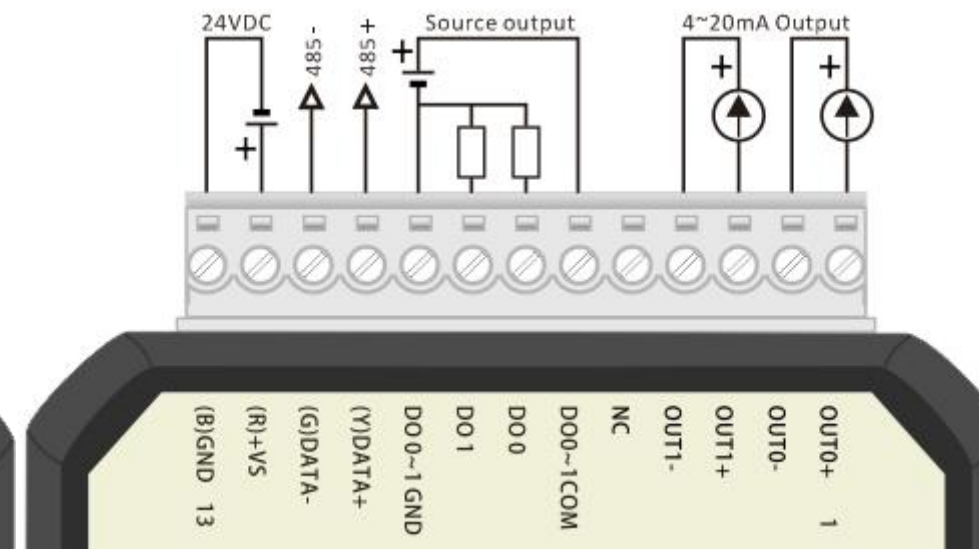
A-1036+



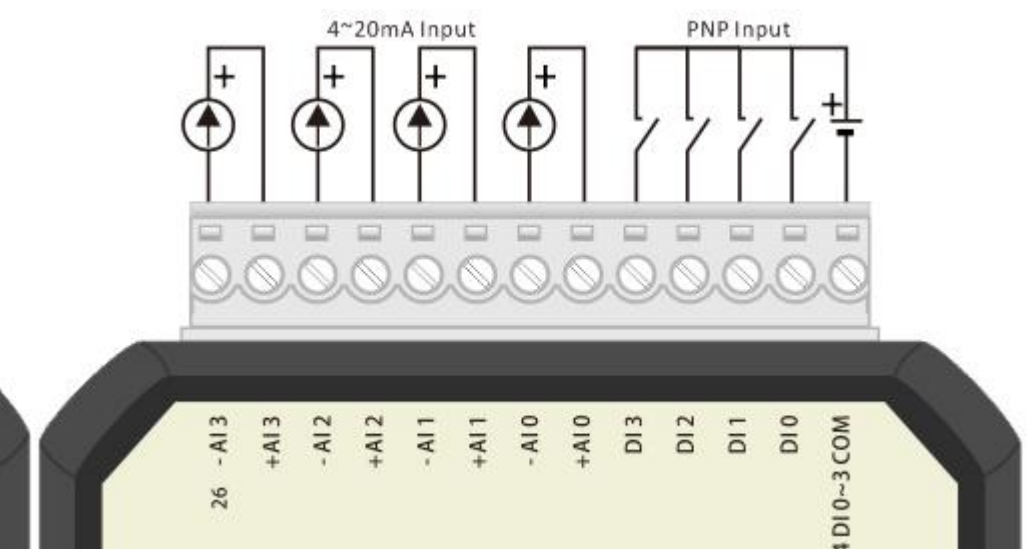
A-1012/1012+



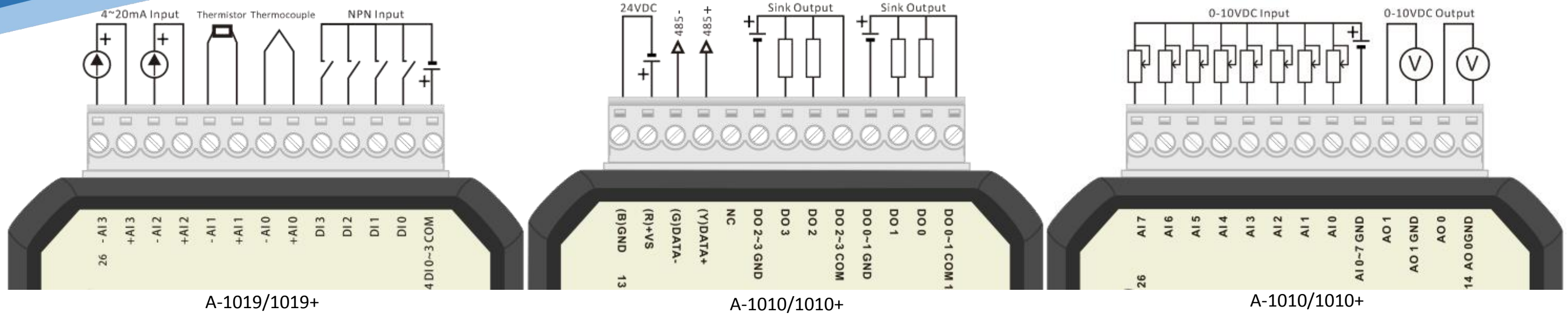
A-1012/1012+



A-1012/1012+



A-1019/1019+



Contact us

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