A-12 Series Wi-Fi Remote I/O Module

ATC remote Wi-Fi I/O Modbus module, support RTU/ASCII/TCP protocol, through the RS-485 communication port and ATC series controller to control the communication. And it also can communicate with other devices that support the Modbus RTU/ASCII protocol, host computer communication or remote command control. It also can be connected to the A-3290 Wi-Fi bidirectional remote controller directly control the output, no the need for any controller. The Wi-Fi function of the module support set up AP mode and Client mode to make the series of module work in Bus network or networking by Wi-Fi. To make the I/O points can flexible expansion.

Part No.	A-1219	A-1212	A-1251
Operation Voltage	10 ~ 30VDC/24VAC	10 ~ 30VDC/24VAC	10 ~ 30VDC/24VAC
Inputs	4 Status Low：<1VDC Status High：>5~30VDC	2 Status Low：<1VDC Status High：>5~30VDC	16 Status Low：<1VDC Status High：>5~30VDC
Outputs	—	2, Source Transistor	—
Continuous Current	—	10 ~ 35VDC(1A)	—
Communication Baud Rate	2400 ~ 921600bps		
Protocol	MODBUS TCP/IP, UDP/IP ,RTU ,ASCII		
Data Bits	8 Bits		
Parity	Odd Parity / Even Parity / None		
Stop Bit	1/2 Bit		
Isolation	YES（5000VDC）		
Input Operating Frequency	10Hz		
Output Operating Frequency	Transistor：10Hz		
Analog Inputs	8（16 bit）	4（16 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℃)	—
Analog Outputs	—	2（12 bit）	—
Analog Output Type	—	0/4-20mA	—
Input Impedance	Current: 100Ω Voltage: 10MΩ	Current: 100Ω RTD: 10MΩ	—
Analog Input / Output Accuracy	±0.1% / —	±0.1% / ±1%	—
Communication Interface	WIFI + RS-485 + USB		
Channel Independent Configuration	Yes		
Sampling Rate	10 sample/second（Total）		
CMR @ 50/60 Hz	120 dB		
Span Drift	±50 ppm/℃		
Zero Drift	±18 μV/℃		
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℃)		
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		

Part No.	A-1255		A-1260		A-1269
Operation Voltage	10 ~ 30VDC/24VAC		10 ~ 30VDC/24VAC		10 ~ 30VDC/24VAC
Inputs	8	Status Low：<1VDC Status High：>5~30VDC	7	Status Low：<1VDC Status High：>5~30VDC	—
Outputs	4, Motor Driver		4, Power Relay		8, Power Relay
Continuous Current	8 ~ 60VDC(1.75A)		250VAC(7A)/30VDC(7A)		250VAC(7A)/30VDC(7A)
Communication Baud Rate	2400 ~ 921600bps				
Protocol	MODBUS TCP/IP, UDP/IP ,RTU ,ASCII				
Data Bits	8 Bits				
Parity	Odd Parity / Even Parity / None				
Stop Bit	1/2 Bit				
Isolation	YES（5000VDC）				
Input Operating Frequency	10Hz				
Output Operating Frequency	Transistor：10Hz				
Analog Inputs	4*(12 bit)				
Analog Input Type	0 ~ 10V				
Analog Outputs	—				
Analog Output Type	—				
Input Impedance	Voltage: 10MΩ				
Analog Input / Output Accuracy	±1% / —				
Communication Interface	WIFI + RS-485 + USB				
Channel Independent Configuration	Yes				
Sampling Rate	10 sample/second（Total）				
CMR @ 50/60 Hz	120 dB				
Span Drift	±50 ppm/℃				
Zero Drift	±18 μV/℃				
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				

■ Pin Table:

A-1260

RL 0 NO	1	26	DI 6
RL 0 COM			DI 5
RL 1 NO			DI 4
RL 1 COM			DI 3
RL 2 NO			DI 2
RL 2 COM			DI 1
RL 3 NO			DI 0
RL 3 COM			DI 0~6 COM
NC			AI 0~3 GND
(Y)DATA+			AI 3
(G)DATA-			AI 2
(R)+VS			AI 1
(B)GND	13	14	AI 0

A-1251

DI 9~11COM	1	26	DI 8
DI 9			DI 7
DI 10			DI 6
DI 11			DI 6~8COM
DI 12~15COM			DI 5
DI 12			DI 4
DI 13			DI 4~5COM
DI 14			DI 3
DI 15			DI 2
(Y)DATA+			DI 2~3COM
(G)DATA-			DI 1
(R)+VS			DI 0
(B)GND	13	14	DI 0~1COM

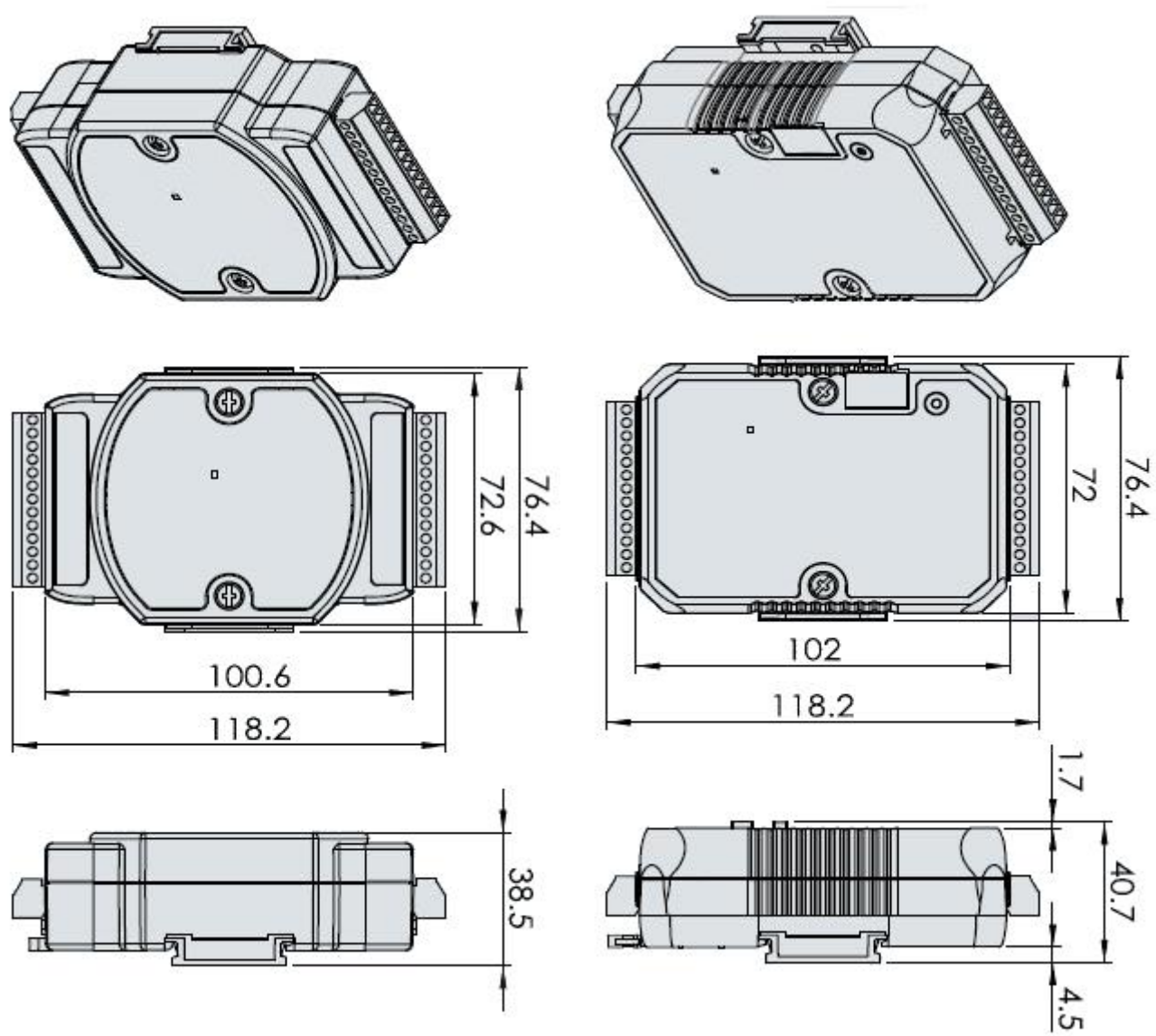
A-1269

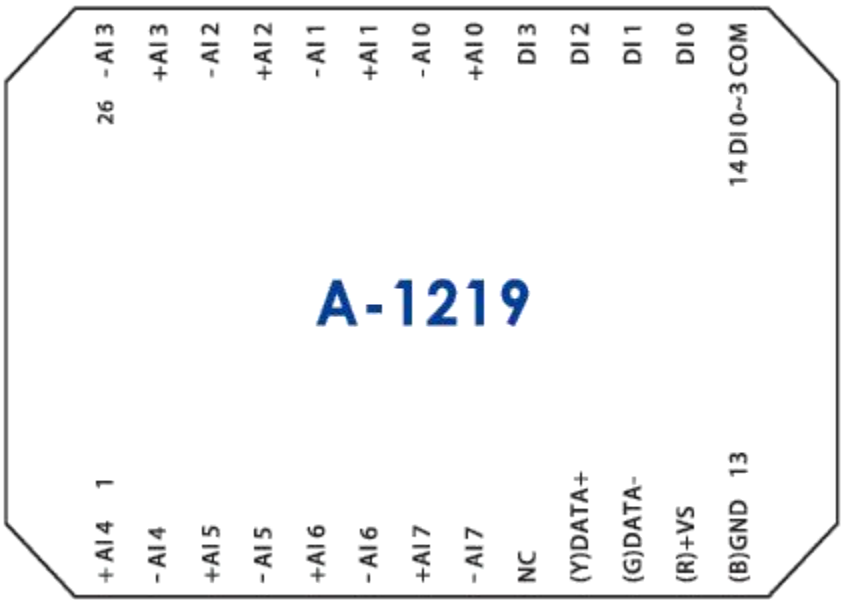
RL 4 NO	1	26	RL 3 COM
RL 4 COM			RL 3 NO
RL 5 NO			RL 2 COM
RL 5 COM			RL 2 NO
RL 6 NO			RL 1 COM
RL 6 COM			RL 1 NO
RL 7 NO			RL 0 COM
RL 7 COM			RL 0 NO
NC			AI 0~3 GND
(Y)DATA+			AI 3
(G)DATA-			AI 2
(R)+VS			AI 1
(B)GND	13	14	AI 0

A-1255

DI 7 COM	1	26	DI 6
DI 7			DI 5
NC			DI 4
DO 0~3 COM			DI 3
DO 0			DI 2
DO 1			DI 1
DO 2			DI 0
DO 3			DI 0~6 COM
DO 0~3 GND			AI 0~3 GND
(Y)DATA+			AI 3
(G)DATA-			AI 2
(R)+VS			AI 1
(B)GND	13	14	AI 0

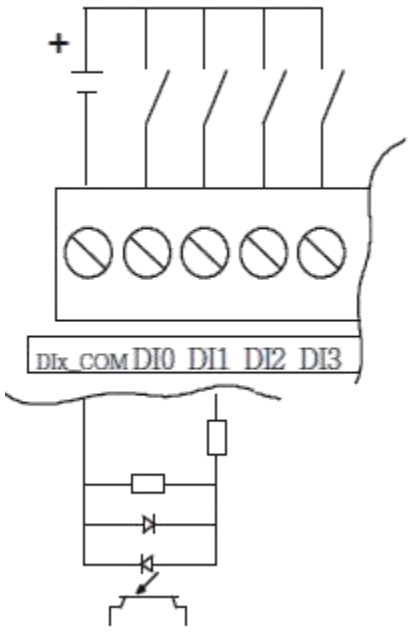
■ Dimension:



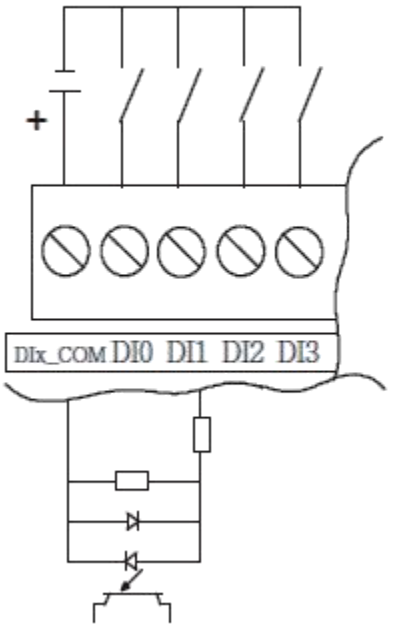


■ Wiring Diagrams & Pin Out

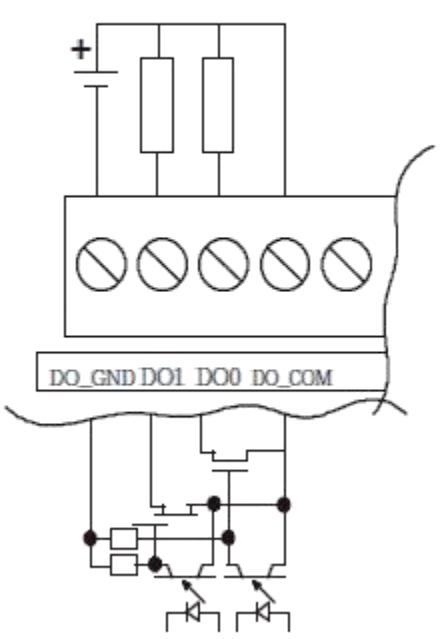
PNP Input



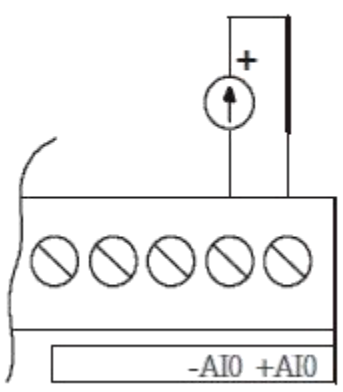
NPN Input



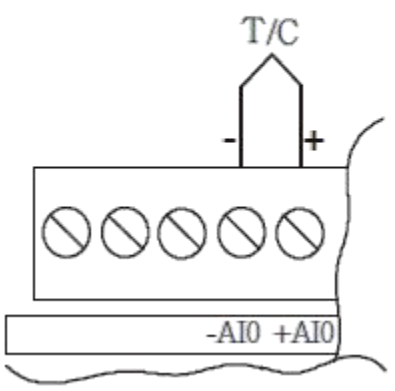
1055 Output



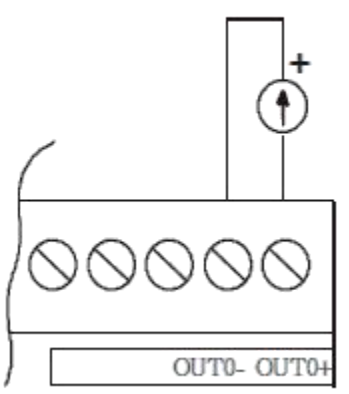
Current Input



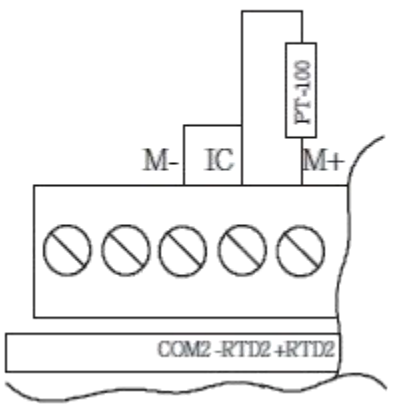
Thermocouple Input



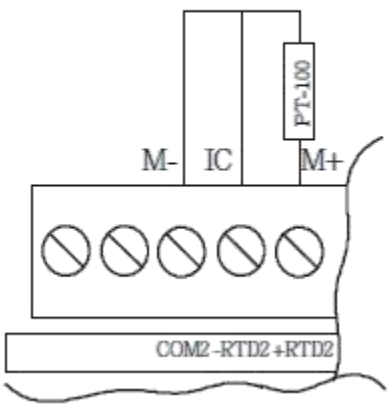
Current Output



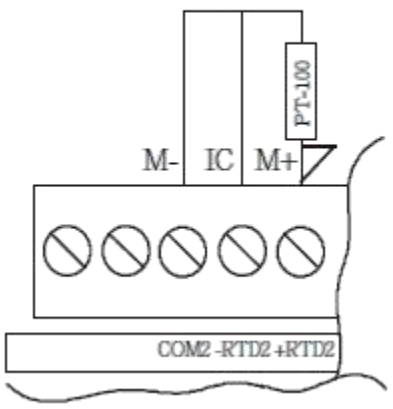
2-wire RTD Input



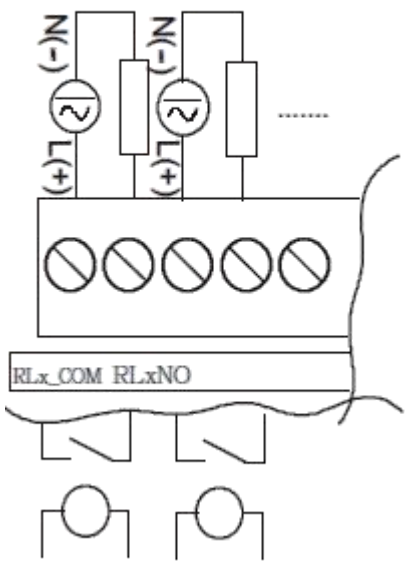
3-wire RTD Input



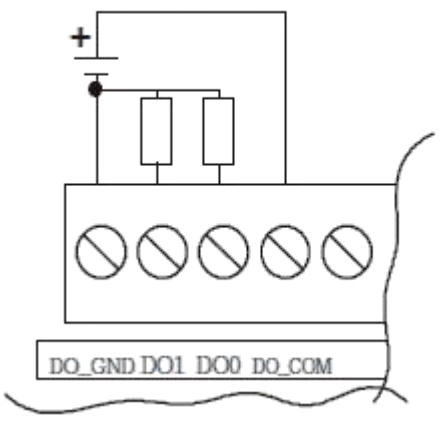
4-wire RTD Input



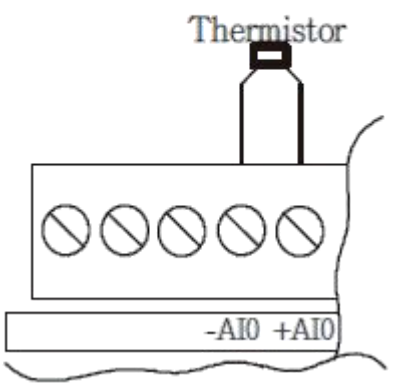
Relay Output



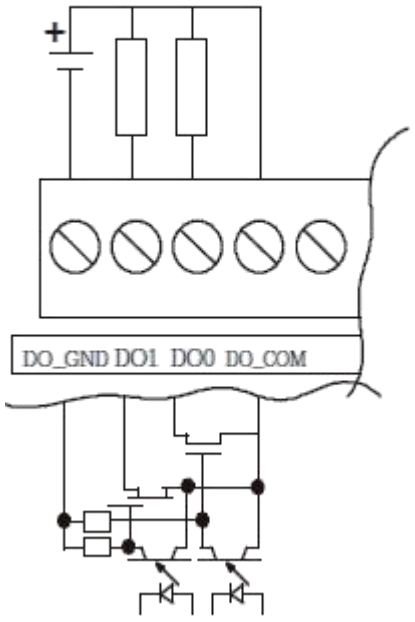
1055S/1012/1212 Output



Thermistor Input



Motor Driver Output



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