

# A Series Remote Modules

Catalogue • 2023. 03



WIFI/ETHERNET/RS-485 Remote Modules

eAutomation Solution

 Yottacontrol Co.

# Remote Modules

## WIFI Analog I/O Remote Modules

### A-12x Series/A-3290



#### OVERVIEW

- ※ Analog Input 16-bit Resolution , Burn-out Detection
- ※ Analog Output 12-bit Resolution
- ※ Support Analog Input/Output 0/4 ~20mA or 0~10V
- ※ Support PT-100 Or PT-1000 (2/3/4-wired)
- ※ Support J, K, T, E, R, S, B Thermocouple
- ※ Support 10K/6.8K/4.7K/3.3K/3K/2.7K/2.252K/2.1K/2K/1.5K/1K Thermistor
- ※ WIFI Interface + RS-485 Interface + USB Interface
- ※ Hi-Speed RS-485 Interface (Max 921600bps)
- ※ Standard 2.4GHz IEEE 802.11 b/g (Wi-Fi)
- ※ Built-in Step Motor Driver, Connect Directly
- ※ Output Over Current Protection (OCP)
- ※ Output Over Thermal Protection (OTP)
- ※ Output Under Voltage Lockout (UVLO)
- ※ Support MODBUS TCP/IP, UDP/IP ,RTU ,ASCII
- ※ Able To Connect Wi-Fi AP, Internet Of Things (IOT), Industry 4.0
- ※ A-3290 Can Be Directly Connected To The Control Output,  
Without Any Controller
- ※ Free Monitor PC Software "YottaUtility"



For more information, please refer to

[www.yotticontrol.com](http://www.yotticontrol.com)

Type	A-1251 DI	A-1212 A-1213 ADIO	A-1219 A-1220 ADIO	A-1255/ A-1255S ADIO	A-1260 ADIO	A-1269 ADIO	A-3290 Wi-Fi Two-Way communicate Transmitter
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC AA Battery *2
Inputs	16*Isolation DI status low:<1VDC status high:>5~30VDC	2*Isolation DI status low:<1VDC status high:>5~30VDC	4*Isolation DI status low:<1VDC status high:>5~30VDC	8*Isolation DI status low:<1VDC status high:>5~30VDC	7*Isolation DI status low:<1VDC status high:>5~30VDC	---	7*Isolation DI
Outputs	---	2*(Transistor)	---	4*(Motor Driver) 4*(Source Driver)	4*(Power Relay)	8*(Power Relay)	---
Continuous Current	---	10-35VDC(1A)	---	8-60VDC(1.75A) /10-40VDC(1A)	250VAC(7A) /30VDC(7A)	250VAC(5A) /30VDC(5A)	---
Communication Baud Rate				2400~921600bps			WIFI b/g
Isolation				YES(5000VDC)			
Input Operating Frequency				10HZ			5HZ
Output Operating Frequency				Transistor:10HZ			---
Operation Temperature				-20 to +75 °C			-20 to +75 °C
Degree Of Protection				IP20			IP66
Installation				35 mm DIN rail or Flush mounting			---
Dimension (W x H x D mm)				76.4*118.2*38.5 mm			120*55*30 mm
Analog Inputs	---	4 (16-bit)	8 (16-bit)		4 (12-bit)		---
Analog Input Type	---	2*0/4~20mA 2*0/2~10V 2*PT-100/1000 (-200~+600°C)	0/4~20mA, J.K.T.E.R ,S.B.Thermistor (-270~+1800°C) 0/2~10V		4* 0~10V		---
Analog Outputs	---	2 (12-bit)	---		---		---
Analog Output Type	---	0/4 ~20mA	---		---		---
Input Impedance	---	Current: 100 Ω RTD : 10 MΩ	Current: 100 Ω Voltage : 10 MΩ		Voltage:10 MΩ		---
Analog Input / Outpu Accuracy	---	±0.1% / ±1%	±0.1% / ---		±1% / ---		---
Interface				WIFI + RS-485 + USB			WIFI + USB
Channel Independent Configuration				YES			---
Sampling Rate				AI/AO: 10sample/second(total) ; DI/DO:100sample/second(total)			---
CMR @ 50/60 Hz				120 dB			---
Span Drift				±50 ppm/°C			---
Zero Drift				±18 μV/°C			---
Temperature Ranges	(PT-100:-200~600°C) (PT-1000:-200~600°C) (J:-210~760°C) (K:-270~1370°C) (T:-270~400°C) (E:-270~1000°C) (R:0~1750°C) (S:0~1750°C) (B:0~1800°C) (Thermistor-10K-T2:0~100°C) (Thermistor-10K-T3:0~100°C) (Thermistor-6.8K:-10~100°C) (Thermistor-4.7K:-10~100°C) (Thermistor-3.3K:-20~100°C) (Thermistor-3K:-20~100°C) (Thermistor-2.7K:-20~100°C) (Thermistor-2.252K:-20~100°C) (Thermistor-2.1K:-30~100°C) (Thermistor-2K:-30~100°C) (Thermistor-1.5K:-40~100°C) (Thermistor-1K:-40~100°C)						

Sky blue background with white letters is the difference for the models in the same field.

# Remote Modules

## ETHERNET Analog I/O Remote Modules

### A-18x Series



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#### OVERVIEW

- ※ Analog Input 16-bit Resolution
- ※ Analog Output 12-bit Resolution
- ※ Support Analog Input/Output 0/4 ~20mA or 0~10V
- ※ Support PT-100 Or PT-1000 (2/3/4-wired)
- ※ Support J, K, T, E, R, S, B Thermocouple
- ※ Support 10K/6.8K/4.7K/3.3K/3K/2.7K/2.252K/2.1K/2K/1.5K/1K Thermistor
- ※ Burn-out Detection
- ※ Ethernet Interface + USB Interface
- ※ Supports 8 Independent Sockets Simultaneously
- ※ Remote Monitoring And Control With Mobile Devices
- ※ Built-in Step Motor Driver, Connect Directly
- ※ Output Over Current Protection (OCP)
- ※ Output Over Thermal Protection (OTP)
- ※ Output Under Voltage Lockout (UVLO)
- ※ Support MODBUS TCP/IP, MODBUS RTU
- ※ Flexible User-defined Modbus address
- ※ Support LAN 10/100 Mbps Communication Rate
- ※ Free Monitor PC Software "YottaUtility"



For more information, please refer to  
[www.yottacontrol.com](http://www.yottacontrol.com)

Type	A-1851	A-1812	A-1819	A-1855/A-1855S	A-1860	A-1869
	DI	AIO	AIO	DIO	DIO	DIO
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC
Inputs	16*Isolation DI status low:<1VDC status high:>5~30VDC	2*Isolation DI status low:<1VDC status high:>5~30VDC	---	8*Isolation DI status low:<1VDC status high:>5~30VDC	8*Isolation DI status low:<1VDC status high:>5~30VDC	---
Outputs	---	---	---	4*(Motor Driver/Source)	4*(Power Relay)	8*(Power Relay)
Continuous Current	---	---	---	8-60VDC(1.75A) /10-40VDC(1A)	250VAC(7A)/30VDC(7A)	250VAC(7A)/30VDC(7A)
Communication Baud Rate	10/100Mbps					
Isolation	YES(5000VDC)					
Input Operating Frequency	10HZ					
Output Operating Frequency	Transistor:10HZ					
Operation Temperature	-20 to +75 °C					
Degree Of Protection	IP20					
Installation	35 mm DIN rail or Flush mounting					
Dimension (W x H x D mm)	76.4*118.2*38.5 mm					
Analog Inputs	---	4 (16-bit)	8 (16-bit)	---	---	---
Analog Input Type	---	2* 0/4~20mA 2* PT-100/1000 (-200 ~ +600°C)	0/4~20mA,J,K,T,E,R ,S,B,Thermistor (-270 ~ +1800°C)	---	---	---
Analog Outputs	---	2 (12-bit)	---	---	---	---
Analog Output Type	---	0/4 ~20mA	---	---	---	---
Input Impedance	---	Current: 100 Ω RTD : 10 MΩ	Current: 100 Ω Voltage : 10 MΩ	---	---	---
Analog Input /Output Accuracy	---	±0.1% / ±1%	±0.1% / ---	---	---	---
Interface	Ethernet + USB					
Channel Independent Configuration	YES					
Sampling Rate	AI/AO: 10sample/second(total) ; DI/DO:100sample/second(total)					
CMR @ 50/60 Hz	120 dB					
Span Drift	±50 ppm/°C					
Zero Drift	±18 μV/°C					
Temperature Ranges	(PT-100:-200~600°C) (PT-1000:-200~600°C) (J:-210~760°C) (K:-270~1370°C) (T:-270~400°C) (E:-270~1000°C) (R:0~1750°C) (S:0~1750°C) (B:0~1800°C) (Thermistor-10K-T2:0~100°C) (Thermistor-10K-T3:0~100°C) (Thermistor-6.8K:-10~100°C) (Thermistor-4.7K:-10~100°C) (Thermistor-3.3K:-20~100°C) (Thermistor-3K:-20~100°C) (Thermistor-2.7K:-20~100°C) (Thermistor-2.252K:-20~100°C) (Thermistor-2.1K:-30~100°C) (Thermistor-2K:-30~100°C) (Thermistor-1.5K:-40~100°C) (Thermistor-1K:-40~100°C)					

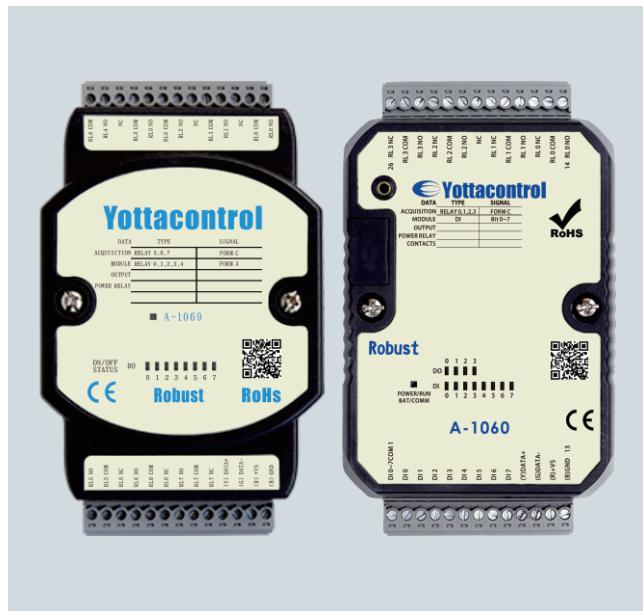
# Remote Modules

## RS-485 I/O Remote Modules

### A-10x Series

#### OVERVIEW

- ※ Use for Yottacontrol Whole Series Controller
- ※ RS-485 Interface
- ※ Supports Modbus RTU / ASCII
- ※ LED Indicator
- ※ Operation Temperature -20~+75 °C
- ※ Isolation Voltage: 5000 V DC
- ※ Surge , EFT And ESD Protection
- ※ Dual Watchdog Timer
- ※ Low Power Indicator
- ※ Operation Range: Up To 1200 Meters
- ※ Free Monitor PC Software "YottaUtility"



For more information, please refer to

[www.yottacontrol.com](http://www.yottacontrol.com)

Type	A-1057	A-1058	A-1068	A-1069	A-1051	A-1051+ (isolated RS485) DIO
	DO	DO	DO	DO	DI	
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC
Inputs	---	---	---	---	16*Isolation DI status low:<1VDC status high:>5~30VDC	16*Isolation DI status low:<1VDC status high:>5~30VDC
Outputs	12 (Source Transistor)	12 (Sink Transistor)	8 (Signal Relay)	8 (Power Relay)	---	---
Continuous Current	10-35VDC(1A)	10-40VDC(200mA)	120VAC(0.5A)/30VDC(1A)	250VAC(5A)/30VDC(1A)	---	---
Communication Baud Rate	1200~115200bps					
Isolation	YES(5000VDC)					
Input Operating Frequency	10HZ					
Output Operating Frequency	Relay:10HZ / Transistor:10HZ					
Operation Temperature	-20 to +75 °C					
Degree Of Protection	IP20					
Installation	35 mm DIN rail or Flush mounting					
Dimension (W x H x D mm)	76.4*118.2*38.5 mm					

Type	A-1055	A-1055S	A-1060	A-1080 (Lighting Relay Controller)
	DIO	DIO	DIO	
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30 VDC/24VAC	10~30 VDC/24VAC
Inputs	8*Isolation DI status low:<1VDC status high:>5~30VDC	8*Isolation DI status low:<1VDC status high:>5~30VDC	8*Isolation DI status low:<1VDC status high:>5~30VDC	
Outputs	8 (Sink Transistor)	8 (Source Transistor)	4 (Power Relay)	8 (HID Relay)
Continuous Current	10-35VDC(200mA)	10-35VDC(1A)	250VAC(5A)/30VDC(5A)	
Communication Baud Rate	1200~115200bps			2400~921600bps
Isolation	YES(5000VDC)			YES(5000VDC)
Input Operating Frequency	10HZ			10HZ
Output Operating Frequency	Relay:10HZ/Transistor:10HZ			Function Key:8
Operation Temperature	-20 to +75°C			-20 to +75°C
Degree Of Protection	IP20			IP20
Installation	35mm DIN rail or Flush mounting			35mm DIN rail or Flush mounting
Dimension (W x H x D mm)	76.4*118.2*38.5 mm			76.4*118.2*38.5 mm

# Remote Modules

## RS-485 Analog I/O Remote Modules

### A-10x Series

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#### OVERVIEW

- ※ Analog Input 16-bit Resolution
- ※ Analog Output 12-bit Resolution
- ※ Support Analog Input/Output 0/4 ~20mA Or 0~10V
- ※ Support PT-100 Or PT-1000 (2/3/4-wired)
- ※ Support J, K, T, E, R, S, B Thermocouple
- ※ Support 10K/6.8K/4.7K/3.3K/2.7K/2.252K/2.1K/2K/1.5K/1K Thermistor
- ※ Burn-out Detection
- ※ RS-485 Interface + USB Interface
- ※ Hi-Speed RS-485 Interface (Max 921600bps)
- ※ Supports Modbus RTU / ASCII
- ※ LED Indicator
- ※ Operation Temperature -20~+75 °C
- ※ Isolation Voltage: 5000 V DC
- ※ Surge , EFT And ESD Protection
- ※ Dual Watchdog Timer
- ※ Low Power Indicator
- ※ Operation Range: Up To 1200 Meters
- ※ Free PC Software "YottaUtility"



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Type	A-1010 A-1010+ ADIO	A-1012 A-1012+ ADIO	A-1013 ADIO	A-1019 A-1019+ ADIO	A-1020 ADIO	A-1036+ AO	A-1038+ AO
Operation Voltage	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC	10~30VDC/24VAC
Inputs	---	2*Isolation DI status low:<1VDC status high:>5~30VDC	2*Isolation DI status low:<1VDC status high:>5~30VDC	4*Isolation DI status low:<1VDC status high:>5~30VDC	4*Isolation DI status low:<1VDC status high:>5~30VDC	---	---
Outputs	4*(Transistor)	2*(Transistor)	2*(Transistor)	---	---	---	---
Continuous Current	10~40VDC(200mA)	10~35VDC(1A)	10~35VDC(1A)	---	---	---	---
Communication Baud Rate	2400~921600bps						
Isolation	YES(5000VDC)						
Input Operating Frequency	10HZ						
Output Operating Frequency	Transistor:10HZ						
Operation Temperature	-20 to +75 °C						
Degree Of Protection	IP20						
Installation	35 mm DIN rail or Flush mounting						
Dimension (W x H x D mm)	76.4*118.2*38.5 mm						
Analog Inputs	8 (10-bit)	4 (16-bit)	4 (16-bit)	8 (16-bit)	8(16-bit)	---	---
Analog Input Type	0~10V	2*0/4~20mA <b>isolated</b> 2*PT-100/1000 (-200~+600°C)	2*0/2~10V 2*PT-100/1000 (-200~+600°C)	0/4~20mA <b>isolated</b> J.K.T.E .R.S.B Thermistor (-270~+1800°C)	0/2~10V	---	---
Analog Outputs	2(10-bit)	2(12-bit)	2(12-bit)	---	---	6(12-bit)	8(12-bit)
Analog Output Type	0~10V	0/4~20mA	0/2~10V	---	---	0/4~20mA	0/2~10V
Input Impedance	Voltage:10 MΩ	Current:100Ω	Current:100Ω	Current:100Ω	Voltage: 10MΩ	---	---
Analog Input / Output Accuracy	±1%/±1%	±0.1%/±1%	±0.1%/±1%	±0.1%/- ---	±0.1%/- ---	±0.1%/- ---	±0.1%/- ---
Interface	RS-485(isolataed)	RS-485(isolataed) +USB	RS-485+USB	RS-485(isolataed) +USB	RS-485+USB	RS-485(isolataed)	RS-485(isolataed)
Channel Independent Configuration	YES						
Sampling Rate	AI/AO: 10sample/second(total) ; DI/DO:100sample/second(total)						
CMR @ 50/60 Hz	120 dB						
Span Drift	±50 ppm/°C						
Zero Drift	±18 μV/°C						
Temperature Ranges	(PT-100:-200~600°C) (PT-1000:-200~600°C) (J:-210~760°C) (K:-270~1370°C) (T:-270~400°C) (E:-270~1000°C) (R:0~1750°C) (S:0~1750°C) (B:0~1800°C) (Thermistor-10K-T2:0~100°C) (Thermistor-10K-T3:0~100°C) (Thermistor-6.8K:-10~100°C) (Thermistor-4.7K:-10~100°C) (Thermistor-3.3K:-20~100°C) (Thermistor-3K:-20~100°C) (Thermistor-2.7K:-20~100°C) (Thermistor-2.252K:-20~100°C) (Thermistor-2.1K:-30~100°C) (Thermistor-2K:-30~100°C) (Thermistor-1.5K:-40~100°C) (Thermistor-1K:-40~100°C)						

Sky blue background with white letters is the difference for the models in the same field.

# Remote Modules

## RS-485 I/O Remote Modules

### A-1080 Lighting Relay Controller

#### OVERVIEW

- ※ Can Be Used In Building Lighting, Street Lighting, Hotel Lighting, To Measure Up Better Energy Control
- ※ N + 1 Wiring Lighting Output Control
- ※ Manual Control Switch At Each Point And Long Distance Remote Control From The Control Room
- ※ LED Status Indicator
- ※ Can Be Installed With DIN And Secured With Screw
- ※ The Module Can Use AC-24V To Supply Electricity To Reduce The Cost
- ※ Can Be Omitted Lighting Electrical Engineering Part Of The Secondary Circuit Transformation
- ※ Use For Yottacontrol Whole Series Controller
- ※ RS-485 Interface
- ※ Supports Modbus RTU / ASCII
- ※ Operation Temperature -20~+75 °C
- ※ Isolation Voltage: 5000 V DC
- ※ Surge, EFT And ESD Protection
- ※ Dual Watchdog Timer
- ※ Low Power Indicator
- ※ Operation Range: Up To 1200 Meters
- ※ Free Monitor PC Software "Yotta Utility"



For More Information, Please Refer To

[www.yotticontrol.com](http://www.yotticontrol.com)

Type	A-1080 (Lighting Relay Controller)
Operation Voltage	10~30VDC/24VAC
Outputs(Isolation)	8
Communication Baud Rate	2400~921600bps
Isolation	Yes(5000VDC)
Output Operating Frequency	10HZ
Operation Temperature	-20 to +75 °C
Degree Of Protection	IP20
Function Key	8
Installation	35 mm DIN Rail or Flush Mounting
Dimension (W x H x D mm)	76.4*118.2*39 mm

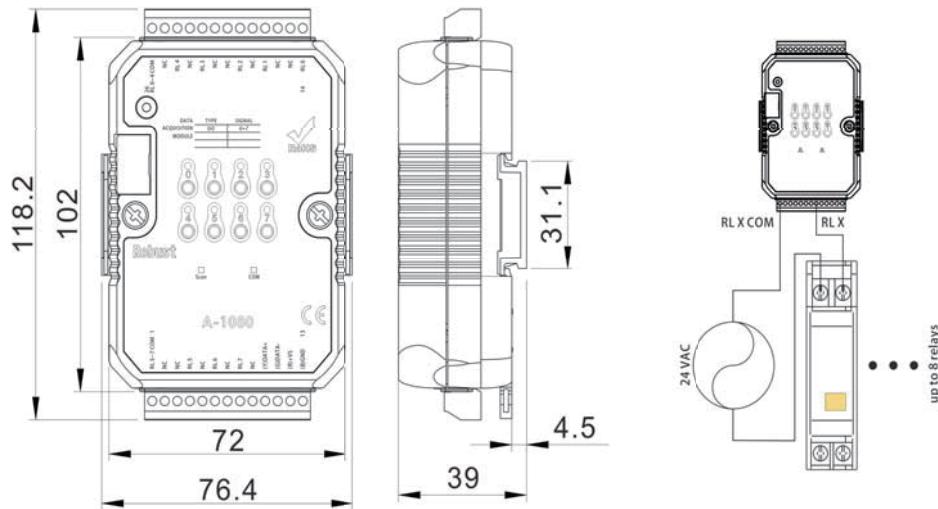
#### Address Mapping

Supported Modbus Code: 01/02/05/15

Address :00017~00024

0~7 Digital Output Value

#### Dimension & Wiring Diagrams



# Monitoring and Database Software

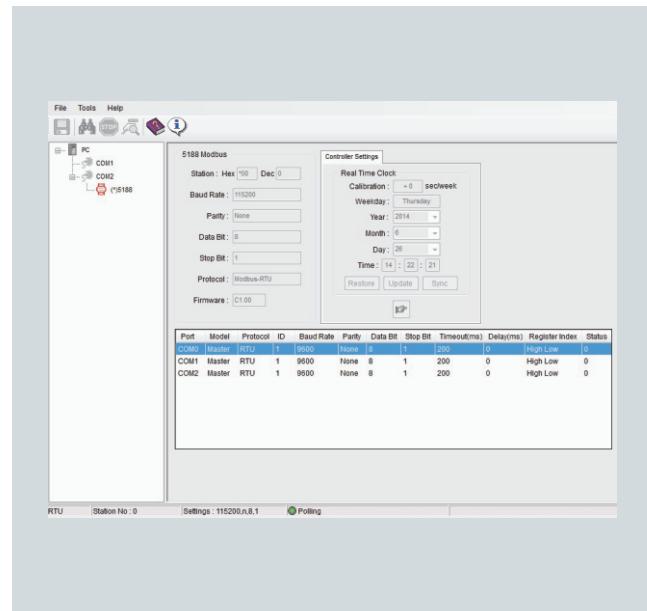
## DCS Monitoring and Database Software

### YottaUtility

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#### OVERVIEW

- ※ Monitor & Database Function
- ※ Use For Yottacontrol Whole Series Controller And TS-48 Time Switch
- ※ Windows98/ME/2000/XP/Vista/7/8/10
- ※ Quick Setup Distributed Device Parameter & Monitoring
- ※ Can Monitor DCS Program & Parameters
- ※ Can Monitor PLC Program & Parameters
- ※ Monitor & Database Can Use For SCADA
- ※ Real-Time Monitoring, Warning Setup
- ※ Monitor Hundreds Controllers & Distributed Devices
- ※ Component Name Comment
- ※ Easy Logical Program Function
- ※ Time Switch Series Edit
- ※ Multi Communicate Parameter Function
- ※ Support MODBUS TCP-IP/UDP-IP/RTU/ASCII
- ※ Quick Setup Controller RTC Parameter



For more information, please refer to

[www.yottacontrol.com](http://www.yottacontrol.com)

#### APPLICATIONS

##### ELECTRONIC EQUIPMENT

- SORTING MACHINE
- LOADER & UNLOADER
- PACKAGING MACHINE
- DETACTOR
- CUTTING MACHINE
- LAMINATOR
- COATING MACHINE
- LAPPLING MACHINE
- FEEDING SYSTEM
- PRECISION MACHINERY

##### ELECTROMECHANICAL EQUIPMENT

- SPRAYING MACHINE
- EVAPORATION
- MACERATOR
- CALENDER MACHINE
- FLUSHING MACHINE
- ELECTROPLATING MACHINE
- WELDING MACHINE
- PRESS MACHINE
- CUTTING MACHINE
- BENDING MACHINE
- BOBBIN MACHINE
- BURN-IN EQUIPMENT
- DIE CASTER
- HEATING PROCESSING

##### FOOD & BEVERAGE

- PACKAGING MACHINE
- SEAL-CAPPING MACHINE
- LABELLING MACHINE
- FORMING MACHINE
- BLENDER EQUIPMENT
- CASING MACHINE
- FILLING MACHINE
- DRYER EQUIPMENT
- WEIGHT SEPARATOR
- CAPPING MACHINE
- INJECTION MACHINE
- TEMPERATURE-CONTROLL

# Ordering Information

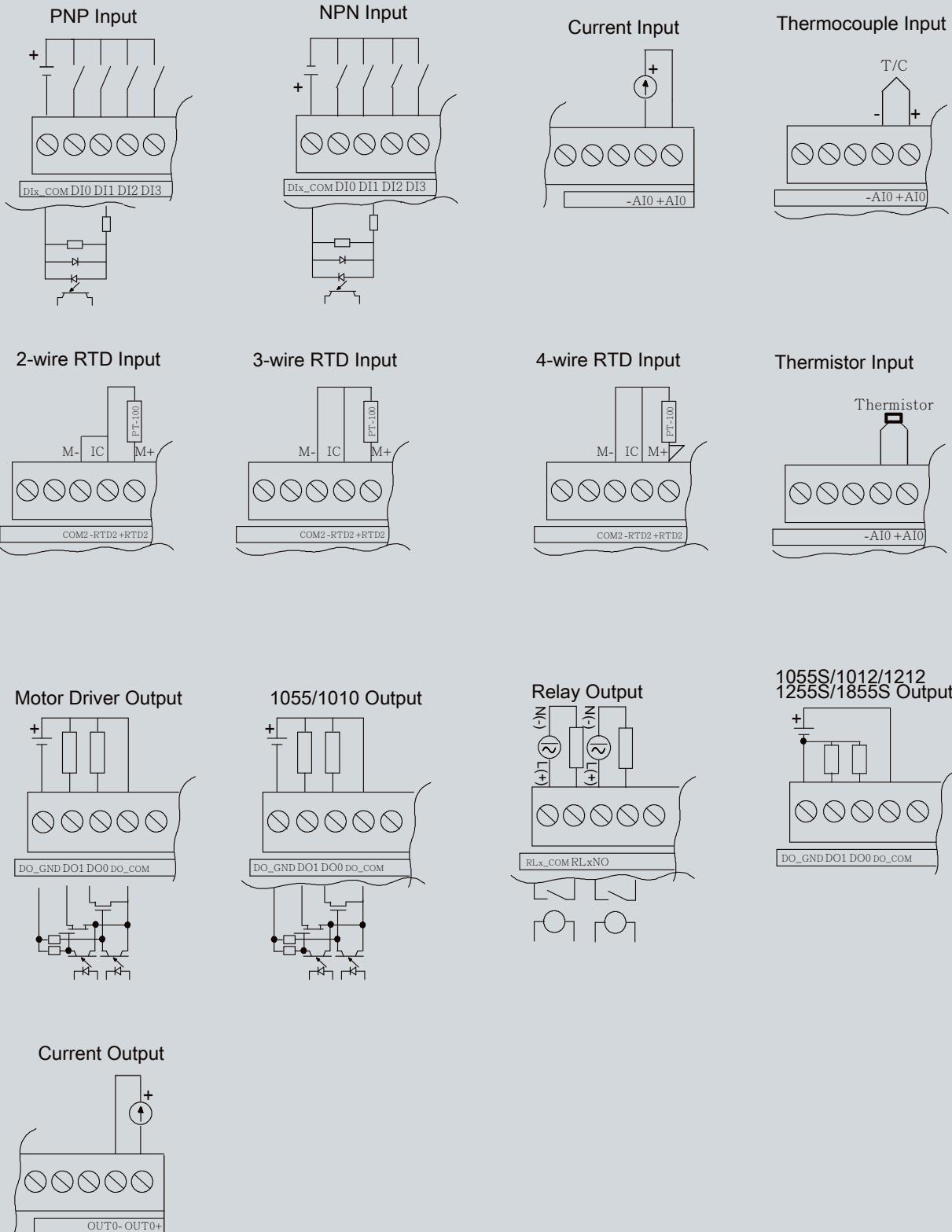
## Yottacontrol Remote Modules

WIFI Remote Modules		
1212	WIFI ADIO Remote Modules,4AI(0~20/4~20mA + PT-100/1000),2AO(0~20/4~20mA),2DI,2DO(Source Output),WIFI*1,RS-485*1,USB*1	A-1212
1213	WIFI ADIO Remote Modules,4AI(0/2~10V + PT-100/1000),2AO(0/2~10V),2DI,2DO(Source Output),WIFI*1,RS-485*1,USB	A-1213
1219	WIFI ADIO Remote Modules,8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor),4DI,WIFI*1,RS-485*1,USB*1	A-1219
1251	WIFI DI Remote Modules,16DI,WIFI*1,RS-485*1,USB*1	A-1251
1255	WIFI ADIO Remote Modules,8DI/4DO/4AI(0~10V),Motor Driver Output,WIFI*1,RS-485*1,USB*1	A-1255
1260	WIFI ADIO Remote Modules,7DI/4DO/4AI(0~10V),Power Relay Output,WIFI*1,RS-485*1,USB*1	A-1260
1269	WIFI ADIO Remote Modules,8DO/4AI(0~10V),Power Relay Output,WIFI*1,RS-485*1,USB*1	A-1269
1255S	WIFI ADIO Remote Modules,8DI/4DO/4AI(0~10V),Source Output,WIFI*1,RS-485*1,USB*1	A-1255S
ETHERNET Remote Modules		
1812	ETHERNET ADIO Remote Modules,4AI(0~20/4~20mA + PT-100/1000),2AO(0~20/4~20mA),2DI,ETHERNET*1,USB*1	A-1812
1819	ETHERNET ADIO Remote Modules,8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor),ETHERNET*1,USB*1	A-1819
1851	ETHERNET DI Remote Modules,16DI,ETHERNET*1,USB*1	A-1851
1855	ETHERNET DIO Remote Modules,8DI/4DO,Motor Driver Output,ETHERNET*1,USB*1	A-1855
1860	ETHERNET DIO Remote Modules,8DI/4DO,Power Relay Output,ETHERNET*1,USB*1	A-1860
1869	ETHERNET DIO Remote Modules,8DO,Power Relay Output,ETHERNET*1,USB*1	A-1869
1855S	ETHERNET DIO Remote Modules,8DI/4DO,Source Driver Output,ETHERNET*1,USB*1	A-1855S
RS-485 Remote Modules		
1057	DO Remote Modules , LED indicator , DC Power Supply , 12DO , Source Output , RS-485*1	A-1057
1058	DO Remote Modules , LED indicator , DC Power Supply , 12DO , Sink Output , RS-485*1	A-1058
1068	DO Remote Modules , LED indicator , DC Power Supply , 8DO , Signal Relay Output , RS-485*1	A-1068
1069	DO Remote Modules , LED indicator , DC Power Supply , 8DO , Power Relay Output , RS-485*1	A-1069
1051+	DI Remote Modules , LED indicator , DC Power Supply , 16DI , RS-485*1(isolated)	A-1051+
1051	DI Remote Modules , LED indicator , DC Power Supply , 16DI , RS-485*1	A-1051
1055	DIO Remote Modules , LED indicator , DC Power Supply , 8DI/8DO , Sink Output , RS-485*1	A-1055
1055S	DIO Remote Modules , LED indicator , DC Power Supply , 8DI/8DO , Source Output , RS-485*1	A-1055S
1060	DIO Remote Modules , LED indicator , DC Power Supply , 8DI/4DO , Power Relay Output , RS-485*1	A-1060
1010+	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~10V) , 2AO(0~10V) , 4DO(Sink Output) , RS-485*1(isolated)	A-1010+
1010	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~10V) , 2AO(0~10V) , 4DO(Sink Output) , RS-485*1	A-1010
1012+	ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/4~20mA+PT100/1000) , 2AO(0/4~20mA) , 2DI , 2DO(source) , RS-485*1(isolated)	A-1012+
1012	ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/4~20mA+PT100/1000) , 2AO(0/4~20mA) , 2DI , 2DO(source) , RS-485*1,USB*1	A-1012
1013	ADIO Remote Modules , LED indicator , DC Power Supply , 4AI(0/2~10V+PT100/1000) , 2AO(0/2~10V) , 2DI , 2DO(source) , RS-485*1,USB*1	A-1013
1019+	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor) , 4DI , RS-485*1(isolated)	A-1019+
1019	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~20/4~20mA,J,K,T,E,R,S,B,Thermistor) , 4DI , RS-485*1,USB*1	A-1019
1020	ADIO Remote Modules , LED indicator , DC Power Supply , 8AI(0~10V)-16bits , 4DI , RS-485*1 , USB*1	A-1020
1036+	AO Remote Modules , LED indicator , DC Power Supply , 6AO(0/4~20mA) , RS-485*1(isolated)	A-1036+
1038+	AO Remote Modules , LED indicator , DC Power Supply , 8AO(0/2~10V) , RS-485*1(isolated)	A-1038+
1080	DO Remote Modules , LED indicator , DC/AC Power Supply , 8DO , HID Relay Output , Input Switch*8 , RS-485*1	A-1080
Wi-Fi Two-Way Communicate Transmitters		
A-3290	WIFI DI Remote Modules,7DI,WIFI*1,USB*1	A-3290
Accessories		
ASPS	Power Supply , 24V/2A	ASPS
CAB-MINIUSB60	Communication lines	CAB-MINIUSB60
CAB89	A-3290 Communication lines	CAB89
Software		
YottaUtility	Monitoring and Database Software	YottaUtility
A-1x USB Driver	A-1x USB PC Driver	DR-A1XUSB
CAB89 USB Driver	A-3290 Communication lines PC Driver	DR-CAB89USB

# Wiring Diagrams & Pin Out

Remote Modules

## A-1x Series



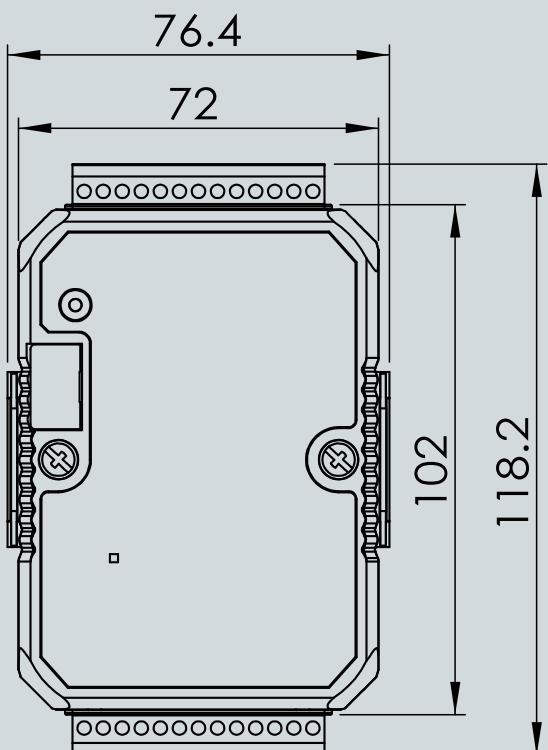
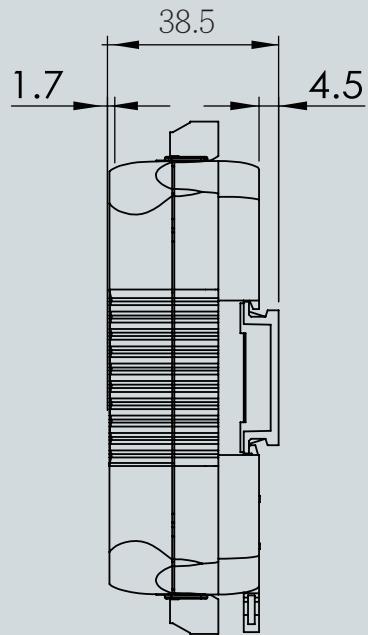
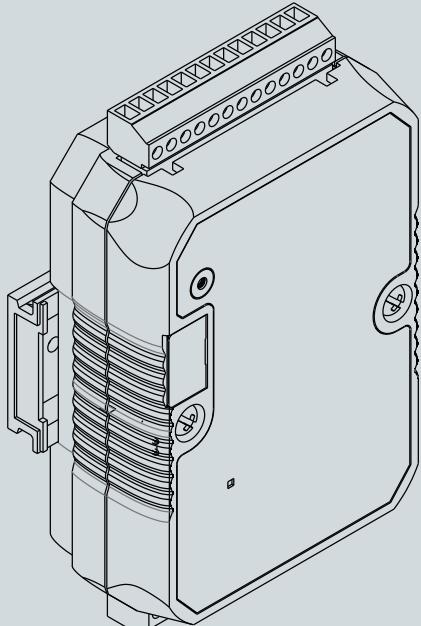
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# Dimension

## Remote Modules

### Remote Modules

Dimension



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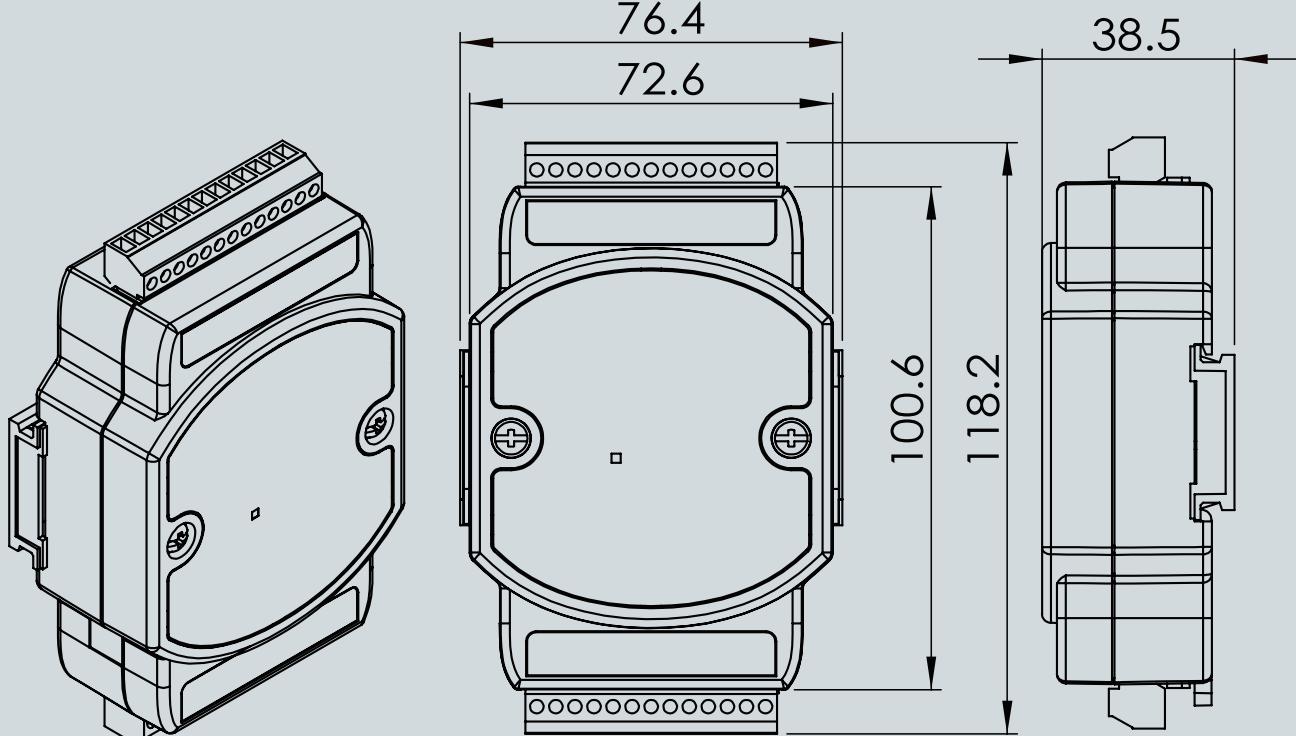
## Dimension

### Remote Modules

## Remote Modules

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Dimension



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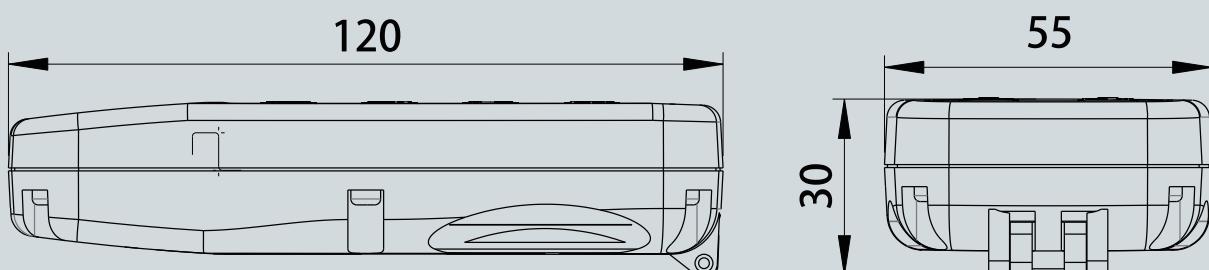
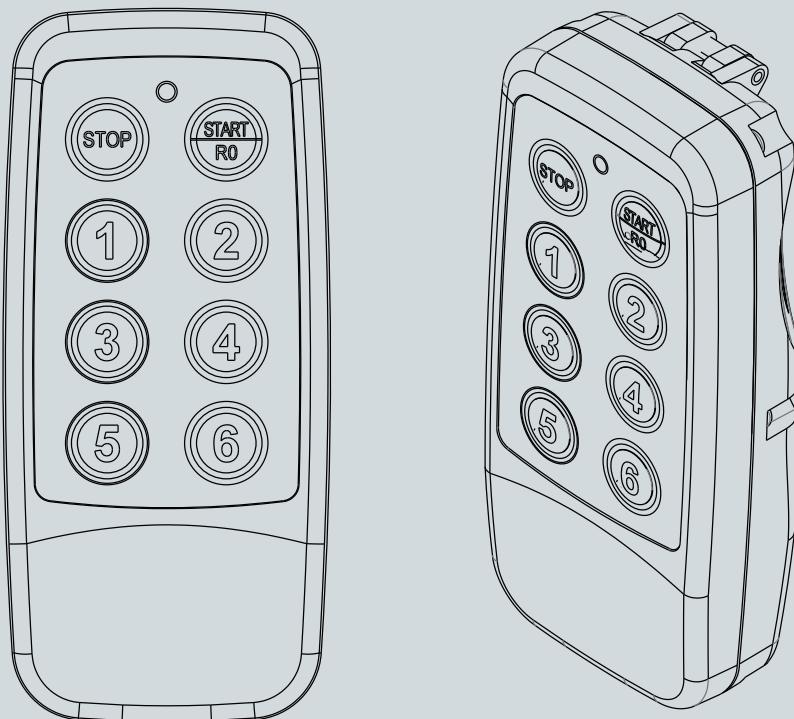
# Dimension

## Remote Modules

### Remote Modules

Dimension

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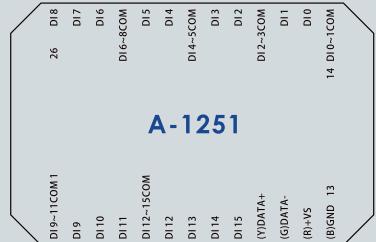
# Pin Assignments

## Remote Modules

## Remote Modules

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### Pin Table

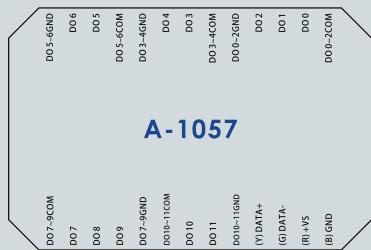
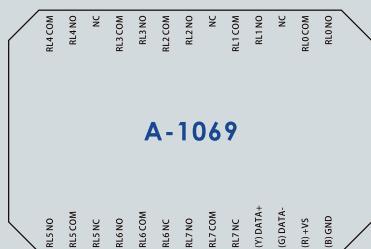
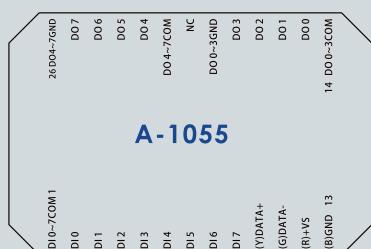
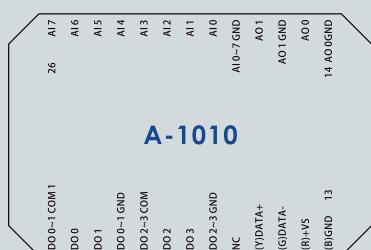
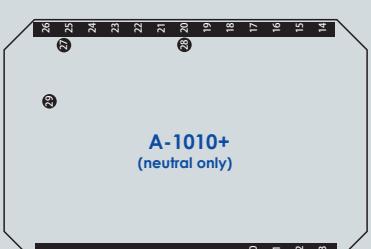
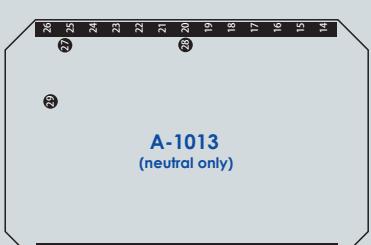
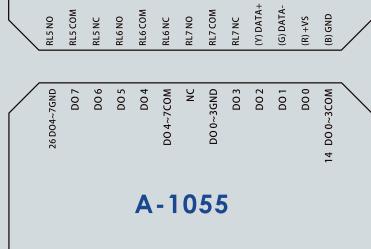
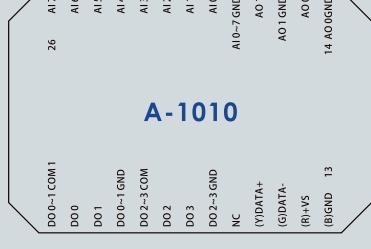
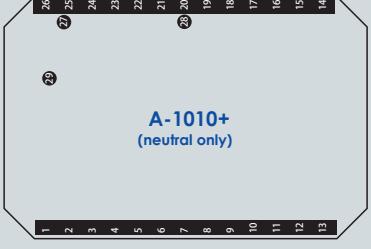
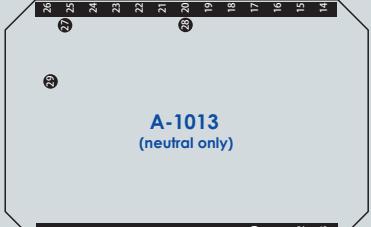


# Pin Assignments

## Remote Modules

## Remote Modules

### Pin Table

**A-1057****A-1069****A-1055****A-1010****A-1010+**  
(neutral only)**A-1013**  
(neutral only)**A-1012****A-1019+**  
(neutral only)**A-1020**  
(neutral only)**A-1036+**  
**A-1038+**  
(neutral only)

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# Address Mapping

## Remote Modules

### Remote Modules

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#### Mapping Table

A-1212					
Supported Modbus Code:	01/02/05/15				
Address 0X	Item	NOR	INIT*	NOTE	
00001~00002	0~1 DI Input Signal	R	R		
00017~00018	0~1 DO Output Value	R/W	R/W		
00033~00034	0~1 Power On Digital Output Value	R	R/W		
00049~00050	0~1 Communication Fail Safe Value	R	R/W		
00065~00066	0~1 Burn-out Signal	R	R	1:Burn-out (4~20mA only)	
00067~00068	2~3 Burn-out Signal	R	R	1:Burn-out	
00129~01152	0~1023 Auxiliary Memory (M Flag)	R/W	R/W		
Supported Modbus Code:	03/04/06/16				
Address 4X	Item	NOR	INIT*	NOTE	
40001~40002	0~1 Current Input Value	R	R	0~20000:0/4~20mA	
40003~40004	2~3 Current Input Value	R	R	0~8000:~200~+600° C	
40017~40018	0~1 Current Output Value	R/W	R/W	0~4000:0/4~20mA	
40033~40034	Power On Analog Output Value	R	R/W	0~4000:0/4~20mA	
40049~40050	0~1 Communication Fail Safe Analog Output Value	R	R/W	0~4000:0/4~20mA	
40065~40066	0~1 Input Type Code	R	R/W	0:4~20mA 1:0~20mA	
40067~40068	2~3 Input Type Code	R	R/W	0:PT-100 $\alpha$ =0.00385 1:PT-100 $\alpha$ =0.003916 2:PT-1000 $\alpha$ =0.00385 3:PT-1000 $\alpha$ =0.003916	
40081~40082	0~1 Output Type Code	R	R/W	0:4~20mA 1:0~20mA	
40097~40098	0~1 Current Input Value	R	R	4/0~20:4/0~20mA	
40099~40100	2~3 Current Input Value	R	R	-200~+600:~-200~+600° C	
40113~40114	0~1 Current Input Value	R	R	4/0~20:4/0~20mA	
40115~40116	2~3 Current Input Value	R	R	-328~+1112:~-328~+1112° F	
40129~40130	0~1 Current Input Value	R	R	40/0~200:4/0~20.0mA	
40131~40132	2~3 Current Input Value	R	R	-2000~+6000:~-2000~+600.0° C	
40145~40146	0~1 Current Input Value	R	R	40/0~200:4/0~20.0mA	
40147~40148	2~3 Current Input Value	R	R	-3280~+11120:~-328.0~+1112.0° F	
40161~40164	0~3 Current Input Value	R	R	0~10000:0.00~100.00% of FSR	
40177	Communication Fail Safe Time Setting Value	R	R/W	0~65535:Disable~65535msec	
40178	All DI Value	R	R		
40211	Module Name 1	R	R		
40212	Module Name 2	R	R		
40213	Version 1	R	R		
40214	Version 2	R	R		
40215~40220	1~6 Mac Serial Number	R	R		
40300	Module's ID In Normal Mode	R	R/W	1~255	
40301	Protocol In Normal Mode	R	R/W	0:RTU 1:ASCII	
40302	Baud Rate In Normal Mode	R	R/W	1: 2400 bps 2: 4800 bps 3: 9600 bps 4: 14400 bps 5: 19200 bps 6: 28800 bps 7: 38400 bps 8: 57600 bps 9: 115200 bps 10: 230400 bps 11: 460800 bps 12: 921600 bps	
40303	Parity Option In Normal Mode			0: None 1: Odd 2: Even	
40304	Stop Bits In Normal Mode	R	R/W	0: 1 bit 1: 2 bit	
40305	Time Out Setting In Normal Mode	R	R/W	0~65535 msec	
40609~40616	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)	
40641~40648	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)	
40673~40680	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)	
40705~40712	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)	
40737~40744	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float AB CD)	
40769~40776	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA CD)	
40801~40808	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)	
40833~40840	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)	
40865~40872	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)	
40897~40904	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)	
40929~40936	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)	
40961~40968	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float DC BA)	
41281~41408	0~127 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0~65535	
40401	WIFI Mode	R	R/W	0:AP(default) 1:Remote	
40402	WIFI Encryption (WPA2)	R	R/W	0:DISABLE(default) 1:ENABLE	
40403~40434	WIFI SSID	R	R/W	Default : 12WIFI	
40435~40498	WIFI Password	R	R/W	Default : 88888888	
40499	WIFI Channel	R	R/W	0~130: Auto(default) / 1~13CH	
40500~40503	WIFI IP	R	R/W	IP:x.x.x.x default : 192.168.1.1	
40504~40507	WIFI MASK	R	R/W	MASK: x.x.x.x default: 255.255.255.0	
40508~40511	WIFI GATEWAY	R	R/W	GATEWAY: x.x.x.x Default: 192.168.1.1	
40512	WIFI MODBUS ID	R	R/W	INIT*: 0, NOR:1~255	
40513	WIFI LOCAL PORT	R	R/W	1~65535 Default: 502	
40514	WIFI REMOTE PORT	R	R/W	1~65535 Default: 2000	
40515	WIFI DHCP Enable	R	R/W	0:ENABLE(default) 1:DISABLE	
40516	WIFI PROTOCOL	R	R/W	0:Modbus TCP/IP(default) 1:Modbus UDP/IP 2:Modbus RTU Over TCP/IP 3:Modbus RTU Over UDP/IP	
40517	WIFI TX POWER	R	R/W	0: Auto(default) step:1~12	
40518~40523	MAC ADDRESS	R	R	EX: 00-05-5D-E8-0F-A3	

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## Address Mapping

## Remote Modules

## Remote Modules

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## Mapping Table

A-1213					
Supported Modbus Code:	01/02/05/15				
Address 0X	Item	NOR	INIT*	NOTE	
00001~00002	0-1 DI Input Signal	R	R		
00017~00018	0-1 DO Output Value	R/W	R/W		
00033~00034	0-1 Power On Digital Output Value	R	R/W		
00049~00050	0-1 Communication Fail Safe Value	R	R/W		
00065~00066	0-1 Burn-out Signal	R	R	1:Burn-out (2-10V only)	
00067~00068	2-3 Burn-out Signal	R	R	1:Burn-out	
00129~01152	0-1023 Auxiliary Memory (M Flag)	R/W	R/W		
Supported Modbus Code:	03/04/06/16				
Address 4X	Item	NOR	INIT*	NOTE	
40001~40002	0-1 Current Input Value	R	R	0-10000:0/2~10V	
40033~40034	2~3 Current Input Value	R	R	0-8000:-200+600° C	
40017~40018	0-1 Current Output Value	R/W	R/W	0-4000:0/2~10V	
40065~40066	Power On Analog Output Value	R	R/W	0-4000:0/2~10V	
40067~40068	0-1 Communication Fail Safe Analog Output Value	R	R/W	0-4000:0/2~10V	
40065~40066	0-1 Input Type Code	R	R/W	0.2-10V 1: 0-10V	
40067~40068	2-3 Input Type Code	R	R/W	0.2:PT-100α=0.00385 1:PT-100α=0.003916 2:PT-1000α=0.00385 3:PT-1000α=0.003916	
40081~40082	0-1 Output Type Code	R	R/W	0.2-10V 1: 0-10V	
40097~40098	0-1 Current Input Value	R	R	0-10:0/2-10V	
40099~40100	2-3 Current Input Value	R	R	-200+600:-200~+600° C	
40113~40114	0-1 Current Input Value	R	R	0-10:0/2-10V	
40115~40116	2-3 Current Input Value	R	R	-328+1112:-328+1112° F	
40129~40130	0-1 Current Input Value	R	R	0-100:0/2-10V	
40131~40132	2-3 Current Input Value	R	R	-2000+6000:-200.0~+600.0° C	
40145~40146	0-1 Current Input Value	R	R	0-100:0/2-10V	
40147~40148	2-3 Current Input Value	R	R	-3280~+11120:-328.0~+1112.0° F	
40161~40164	0-3 Current Input Value	R	R	0-10000:0.00-100.00% of FSR	
40177	Communication Fail Safe Time Setting Value	R	R/W	0-65535:Disable~65535msec	
40178	All DI Value	R	R		
40211	Module Name 1	R	R		
40212	Module Name 2	R	R		
40213	Version 1	R	R		
40214	Version 2	R	R		
40215~40220	1~6 Mac Serial Number	R	R		
40300	Module's ID In Normal Mode	R	R/W	1-255	
40301	Protocol In Normal Mode	R	R/W	0: RTU1: ASCII	
40302	Baud Rate In Normal Mode	R	R/W	1: 2400 bps2 : 4800 bps 3 : 9600 bps 4 : 14400 bps 5 : 19200 bps 6: 28800 bps 7: 38400 bps 8: 57600 bps9: 115200 bps 10: 230400 bps11: 460800 bps 12: 921600 bps	
40303	Parity Option In Normal Mode	R		0:None 1:Odd 2:Even	
40304	Stop Bits In Normal Mode	R	R/W	0:1 bit 1:2 bit	
40305	Time Out Setting In Normal Mode	R	R/W	0-65535 msec	
40609~40616	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)	
40641~40648	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)	
40673~40680	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)	
40705~40712	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float AB CD)	
40737~40744	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float AB CD)	
40769~40776	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float AB CD)	
40801~40808	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)	
40833~40840	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)	
40865~40872	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)	
40897~40904	0-3 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)	
40929~40936	0-3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)	
40961~40968	0-3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float DC BA)	
41281~41408	0-127 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0-65535	
40401	WIFI Mode	R	R/W	0:AP(default) 1:Remote	
40402	WIFI Encryption (WPA2)	R	R/W	0:DISABLE(default) 1:ENABLE	
40403~40434	WIFI SSID	R	R/W	Default : 12WIFI	
40435~40498	WIFI Password	R	R/W	Default : 88888888	
40499	WIFI Channel	R	R/W	0-13 0: Auto(default) / 1-13CH	
40500~40503	WIFILP	R	R/W	IP:x.x.x.x default : 192.168.1.1	
40504~40507	WIFI MASK	R	R/W	MASK: x.x.x.x default:255.255.255.0	
40508~40511	WIFI GATEWAY	R	R/W	GATEWAY: x.x.x.x Default:192.168.1.1	
40512	WIFI MODBUS ID	R	R/W	INIT*: 0,NOR:1-255	
40513	WIFI LOCAL PORT	R	R/W	1-65535 Default:502	
40514	WIFI REMOTE PORT	R	R/W	1-65535 Default:2000	
40515	WIFI DHCP Enable	R	R/W	0:ENABLE(default) 1:DISABLE	
40516	WIFI PROTOCOL	R	R/W	0:Modbus TCP/IP 1:Modbus UDP/IP	
				2:Modbus RTU Over TCP/IP	
				3:Modbus RTU Over UDP/IP	
40517	WIFI TX POWER	R	R/W	0: Auto(default) step:1-12	
40518~40523	MAC ADDRESS	R	R	EX: 00-05-5D-E8-0F-A3	

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# Address Mapping

## Remote Modules

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## Mapping Table

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# Address Mapping

## Remote Modules

## Mapping Table

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# Address Mapping

## Remote Modules

# Remote Modules

## Mapping Table

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# Address Mapping

## Remote Modules

## Remote Modules

## Mapping Table

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# Address Mapping

## Remote Modules

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## Mapping Table

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# Address Mapping

## Remote Modules

## Remote Modules

## Mapping Table

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# Address Mapping

## Remote Modules

# Remote Modules

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## Mapping Table

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# Address Mapping

## Remote Modules

### Remote Modules

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#### Mapping Table

<b>A-1013</b>				
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>			
Address 0X	Item	NOR	INIT*	NOTE
00001~00002	0~1 DI Input Signal	R	R	
00017~00018	0~1 DO Output Value	R/W	R/W	
00033~00034	0~1 Power On Digital Output Value	R	R/W	
00049~00050	0~1 Communication Fail Safe Value	R	R/W	
00065~00066	0~1 Burn-out Signal	R	R	1:Burn-out (2~10V only)
00067~00068	2~3 Burn-out Signal	R	R	1:Burn-out
00129~01152	0~1023 Auxiliary Memory (M Flag)	R/W	R/W	
<b>Supported Modbus Code:</b>	<b>03/04/06/16</b>			
Address 4X	Item	NOR	INIT*	NOTE
40001~40002	0~1 Current Input Value	R	R	0~10000:0/2~10V
40003~40004	2~3 Current Input Value	R	R	0~8000:-200~+600° C
40017~40018	0~1 Current Output Value	R/W	R/W	0~4000:0/2~10V
40033~40034	Power On Analog Output Value	R	R/W	0~4000:0/2~10V
40049~40050	0~1 Communication Fail Safe Analog Output Value	R	R/W	0~4000:0/2~10V
40065~40066	0~1 Input Type Code	R	R/W	0.2~10V 1:0~10V
40067~40068	2~3 Input Type Code	R	R/W	0~PT-100α=0.00385 1:PT-100α=0.003916 2:PT-1000α=0.00385 3:PT-1000α=0.003916
40081~40082	0~1 Output Type Code	R	R/W	0.2~10V 1:0~10V
40097~40098	0~1 Current Input Value	R	R	0~10:0/2~10V
40099~40100	2~3 Current Input Value	R	R	-200~+600:-200~+600° C
40113~40114	0~1 Current Input Value	R	R	0~10:0/2~10V
40115~40116	2~3 Current Input Value	R	R	-328~+1112:-328~+1112° F
40129~40130	0~1 Current Input Value	R	R	0~100:0/2~10V
40131~40132	2~3 Current Input Value	R	R	-2000~+6000:-200.0~+600.0° C
40145~40146	0~1 Current Input Value	R	R	0~100:0/2~10V
40147~40148	2~3 Current Input Value	R	R	-3280~+11120:-328.0~+1112.0° F
40161~40164	0~3 Current Input Value	R	R	0~10000:0.00~100.00% of FSR
40177	Communication Fail Safe Time Setting Value	R	R/W	0~65535:Disable~65535msec
40178	All DI Value	R	R	
40211	Module Name 1	R	R	
40212	Module Name 2	R	R	
40213	Version 1	R	R	
40214	Version 2	R	R	
40215~40220	1~6 Mac Serial Number	R	R	
40300	Module's ID In Normal Mode	R	R/W	1~255
40301	Protocol In Normal Mode	R	R/W	0:RTU 1:ASCII
40302	Baud Rate In Normal Mode	R	R/W	1: 2400 bps 2: 4800 bps 3: 9600 bps 4: 14400 bps 5: 19200 bps 6: 28800 bps 7: 38400 bps 8: 57600 bps 9: 115200 bps 10: 230400 bps 11: 460800 bps 12: 921600 bps
40303	Parity Option In Normal Mode	R	R/W	0:None 1:Odd 2:Even
40304	Stop Bits In Normal Mode	R	R/W	0:1 bit 1:2 bit
40305	Time Out Setting In Normal Mode	R	R/W	0~65535 msec
40609~40616	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)
40641~40648	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)
40673~40680	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)
40705~40712	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float AB CD)
40737~40744	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float AB CD)
40769~40776	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float AB CD)
40801~40808	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float BA DC)
40833~40840	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float BA DC)
40865~40872	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float BA DC)
40897~40904	0~3 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float DC BA)
40929~40936	0~3 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float DC BA)
40961~40968	0~3 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float DC BA)
41281~41408	0~127 Analog Auxiliary Memory (AM Flag)	R/W	R/W	0~65535

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[www.yottaccontrol.com](http://www.yottaccontrol.com)

# Address Mapping

## Remote Modules

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## Mapping Table

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# Address Mapping

## Remote Modules

### Remote Modules

#### Mapping Table

<b>A-1036+</b>					
<b>Supported Modbus Code:</b>	<b>01/02/05/15</b>				
Address 0X	Item	NOR	INIT*	NOTE	
00017-00022	0-5 Digital Output Value	R	R		
00081-00086	0-5 PWM Enable	R	R/W	0 Disable, 1:Enable	
00097-00099	0-2 AB-Phase Enable	R	R/W	0 Disable, 1:Enable	
00113-00115	0-2 Direction of AB-Phase	R/W	R/W	0: Dir+, 1: Dir-	
00129-00131	0-2 Power On Direction of AB-Phase	R	R/W	0: Dir+, 1: Dir-	
00145-00147	0-2 Communication Fail Safe Direction of AB-Phase	R	R/W	0: Dir+, 1: Dir-	
04097-06144	0-2047 Auxiliary Memory (M Flag)	R/W	R/W		
<b>Supported Modbus Code:</b>	<b>03/04/06/16</b>				
Address 4X	Item	NOR	INIT*	NOTE	
40017-40022	0-5 Analog Output Value	R/W	R/W	0-4000: 4-20mA / 0-20mA	
40033-40038	0-5 Power On Analog Output Value	R	R/W	0-4000: 4-20mA / 0-20mA	
40049-40054	0-5 Communication Fail Safe Analog Output Value	R	R/W	0-4000: 4-20mA / 0-20mA	
40081-40086	0-5 Analog Output Type	R	R/W	0: 4-20mA / 1:0-20mA	
40097-40102	0-5 Analog Output Value (mA)	R	R	4/0-20 : 4/0mA-20mA	
40113-40118	0-5 Analog Output Value (0.1mA)	R	R	40/0-200 : 4.0/0.0mA-20.0mA	
40129-40134	0-5 Analog Output Value (0.01mA)	R	R	400/0-2000 : 4.0/0.00mA-20.00mA	
40145-40150	0-5 Analog Output Value (FSR)	R	R	0-10000 : 0.00%-100.00% of FSR	
40177	Communication Fail Safe Time Setting Value	R	R/W	0-32767 (sec) , 0:Disable	
40179	All DO Value	R	R		
40211	Module Name 1	R	R	0x10 0x26	
40212	Module Name 2	R	R	0x00 0x00	
40213	Version 1	R	R	0x01 0x00	
40214	Version 2	R	R	0x00 0x00	
40215-40220	1-6 Mac Serial Number	R	R		
40300	Module's ID In Normal Mode	R	R/W	1-255	
40301	Protocol In Normal Mode	R	R/W	0:RTU, 1:ASCII	
40302	Baudrate In Normal Mode	R	R/W	0: 1200 bps, 1: 2400 bps, 2: 4800 bps, 3: 9600 bps 4: 14400 bps, 5: 19200 bps, 6: 28800 bps, 7: 38400 bps 8: 57600 bps, 9: 115200 bps	
40303	Parity In Normal Mode	R	R/W	0:none, 1:odd, 2:even	
40304	Stop Bits In Normal Mode	R	R/W	0:1 bit, 1:2 bit	
40305	Time Out Setting In Normal Mode	R	R/W	0-32767 (ms)	
40609-40620	0-5 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float CD AB)	
40641-40652	0-5 Current Output Value(32-bit) (mA)	R	R	32-bit Current Floating Value (IEEE754)(Float CD AB)	
40705-40716	0-5 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float AB CD)	
40737-40748	0-5 Current Output Value(32-bit) (mA)	R	R	32-bit Current Floating Value (IEEE754)(Float AB CD)	
40801-40812	0-5 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float BA DO)	
40833-40844	0-5 Current Output Value(32-bit) (mA)	R	R	32-bit Current Floating Value (IEEE754)(Float BA DC)	
40897-40908	0-5 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float DC BA)	
40929-40940	0-5 Current Output Value(32-bit) (mA)	R	R	32-bit Current Floating Value (IEEE754)(Float DC BA)	
41251-41256	0-5 DO Status High Level	R	R/W	400/0-2000 : 4.0/0.00mA-20.00mA	
41259-41264	0-5 DO Status Low Level	R	R/W	400/0-2000 : 4.0/0.00mA-20.00mA	
41267-41272	0-5 Analog Output Offset (4mA)	R	R/W	-1000-1000	
41275-41280	0-5 Analog Output Offset (20mA)	R	R/W	-1000-1000	
41409-41414	0-5 Amplitude of PWM	R/W	R/W	0-4000: 4-20mA / 0-20mA	
41425-41430	0-5 Frequency of PWM	R/W	R/W	10-10000 (0.05ms/pulse)	
41441-41446	0-5 Duty Ratio of PWM	R/W	R/W	0-100%	
41457-41459	0-2 Amplitude of AB-Phase	R/W	R/W	0-4000: 4-20mA / 0-20mA	
41473-41475	0-2 Frequency of AB-Phase	R/W	R/W	10-10000 (0.05ms/pulse)	
41489-41494	0-5 Power On Amplitude of PWM	R	R/W	0-4000: 4-20mA / 0-20mA	
41505-41510	0-5 Power On Frequency of PWM	R	R/W	10-10000 (0.05ms/pulse)	
41521-41526	0-5 Power On Duty Ratio of PWM	R	R/W	0-100%	
41537-41539	0-2 Power On Amplitude of AB-Phase	R	R/W	0-4000: 4-20mA / 0-20mA	
41553-41555	0-2 Power On Frequency of AB-Phase	R	R/W	10-10000 (0.05ms/pulse)	
41569-41574	0-5 Communication Fail Safe Amplitude of PWM	R	R/W	0-4000: 4-20mA / 0-20mA	
41585-41590	0-5 Communication Fail Safe Frequency of PWM	R	R/W	10-10000 (0.05ms/pulse)	
41601-41606	0-5 Communication Fail Safe Duty Ratio of PWM	R	R/W	0-100%	
41617-41619	0-2 Communication Fail Safe Amplitude of AB-Phase	R	R/W	0-4000: 4-20mA / 0-20mA	
41633-41635	0-2 Communication Fail Safe Frequency of AB-Phase	R	R/W	10-10000 (0.05ms/pulse)	
44001-46048	0-2047 Analog Auxiliary Memory (AM Flag)	R/W	R/W		

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# Address Mapping

## Remote Modules

### Remote Modules

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#### Mapping Table

A-1038+					
Supported Modbus Code:	01/02/05/15				
Address 0X	Item	NOR	INIT*	NOTE	
00017	0-7 DO Output Value	R	R	0/1	
00081	0-7 PWM Enable	R	R/W	0/1	
00097	0-3 AB-Phase Enable	R	R/W	0/1	
00113	0-3 AB-Phase Direction	R/W	R/W	0/1	
00129	0-3 Power On Direction of AB-Phase	R	R/W	0/1	
00145	0-3 Communication Fail Safe Direction of AB-Phase	R	R/W	0/1	
04097	0-2047 Auxiliary Memory (M flag)	R/W	R/W	0/1	
Supported Modbus Code:	03/04/06/16				
Address 4X	Item	NOR	INIT*	NOTE	
40017	0-7 Analog Output Value	R/W	R/W	0-4000: 0-10V	
40033	0-7 Power On Analog Output Value	R	R/W	0-4000: 0-10V	
40049	0-7 Communication Fail Safe Analog Output Value	R	R/W	0-4000: 0-10V	
40097	0-7 Analog Output Value (V)	R	R	0-10 : 0V-10V	
40113	0-7 Analog Output Value (0.1V)	R	R	0-100 : 0.0V-10.0V	
40129	0-7 Analog Output Value (0.01V)	R	R	0-1000 : 0.00V-10.00V	
40145	0-7 Analog Output Value (FSR)	R	R	0-10000 : 0.00%-100.00% of FSR	
40177	Communication Fail Safe Time Setting Value	R	R/W	0-32767 (sec), 0:Disable	
40179	All DO Value	R	R		
40211	Module Name 1	R	R	0x38 0x10	
40212	Module Name 2	R	R	0x00 0x00	
40213	Version 1	R	R	0x00 0xA1	
40214	Version 2	R	R	0x00 0x00	
40215	1-6 Mac Serial Number	R	R		
40300	Module's ID In Normal Mode	R	R		
40301	Protocol In Normal Mode	R	R	0:RTU , 1:ASCII	
40302	Baud Rate In Normal Mode	R	R	0(1200 bps) - 9(115200 bps)	
40303	Parity Option In Normal Mode	R	R	0:none, 1:odd, 2:even	
40304	Stop Bits In Normal Mode	R	R	0:1 bit, 1:2 bit	
40305	Time Out Setting In Normal Mode	R	R	0-32767 (ms)	
40609	0-7 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float CD AB)	
40641	0-7 Current Output Value(32-bit) (V)	R	R	32-bit Current Floating Value (IEEE754)(Float CD AB)	
40705	0-7 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float AB CD)	
40737	0-7 Current Output Value(32-bit) (V)	R	R	32-bit Current Floating Value (IEEE754)(Float AB CD)	
40801	0-7 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float BA DC)	
40833	0-7 Current Output Value(32-bit) (V)	R	R	32-bit Current Floating Value (IEEE754)(Float BA DC)	
40897	0-7 Current Output Value(32-bit)	R	R	32-bit Floating Value (IEEE754)(Float DC BA)	
40929	0-7 Current Output Value(32-bit) (V)	R	R	32-bit Current Floating Value (IEEE754)(Float DC BA)	
41251	0-7 DO Status High Level	R	R/W	0-1000 : 0.00V-10.00V	
41259	0-7 DO Status Low Level	R	R/W	0-1000 : 0.00V-10.00V	
41275	0-7 AQ Offset (10V)	R	R/W		
41393	0-7 Analog Output Value of PWM/AB-Phase	R	R	0-4000: 0-10V	
41409	0-7 Amplitude of PWM	R/W	R/W	0-1000 : 0.00V-10.00V	
41425	0-7 Frequency of PWM	R/W	R/W	0.05ms/pulse	
41441	0-7 Duty Ratio of PWM	R/W	R/W	%	
41457	0-3 Amplitude of AB-Phase	R/W	R/W	0-1000 : 0.00V-10.00V	
41473	0-3 Frequency of AB-Phase	R/W	R/W	0.05ms/pulse	
41481	0-3 Duty Ratio of AB-Phase	R	R	%	
41489	0-7 Power On Amplitude of PWM	R	R/W		
41505	0-7 Power On Frequency of PWM	R	R/W	0.05ms/pulse	
41521	0-7 Power On Duty Ratio of PWM	R	R/W	%	
41537	0-3 Power On Amplitude of AB-Phase	R	R/W		
41553	0-3 Power On Frequency of AB-Phase	R	R/W	0.05ms/pulse	
41561	0-3 Power On Duty of AB-Phase	R	R	%	
41569	0-7 Communication Fail Safe Amplitude of PWM	R	R/W		
41585	0-7 Communication Fail Safe Frequency of PWM	R	R/W	0.05ms/pulse	
41601	0-7 Communication Fail Safe Duty Ratio of PWM	R	R/W	%	
41617	0-3 Communication Fail Safe Amplitude of AB-Phase	R	R/W		
41633	0-3 Communication Fail Safe Frequency of AB-Phase	R	R/W	0.05ms/pulse	
41641	0-3 Communication Fail Safe Duty of AB-Phase	R	R	%	
44001	0-2047 Analog Auxiliary Memory (AM Flag)	R/W	R/W		

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