

# A-10xx RS-485 I/O Module

## Modbus Address Mapping



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## A-1012

<b>Supported Modbus Code: 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 (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	
<b>Supported Modbus Code: 03/04/06/16</b>				
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	40/0~200:4.0/0~20.0mA
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	-328~+1112:-328~+1112° F
40129~40130	0~1 Current Input Value	R	R	40/0~200:4.0/0~20.0mA
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	40/0~200:4.0/0~20.0mA
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	0x10 0x12
40212	Module Name 2	R	R	
40213	Version 1	R	R	0x01 0x12
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 m sec
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

### A-1019

Supported Modbus Code: 01/02/05/15				
Address 0x	Item	NOR	INIT*	NOTE
00001~00004	0~3 DI Input Signal	R	R	
00065~00072	0~7 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
40001~40008	0~7 Current Input Value	R	R	0~20000: 0/4~20mA 0~20700: -270~+1800°C
40065~40072	0~7 Input Type Code	R	R/W	0: 4~20mA 1: 0~20mA 2: J(-210~760°C) 3: ,K(-270~1,370°C) 4: T(-270~400°C) 5: E(-270~1,000°C) 6: R(0~1,750°C) 7: S(0~1,750°C) 8: B(0~1,800°C) 9: 10K-2 Thermistor(0~+100°C)

				10:, 10K-3 Thermistor(0~+100°C) 11: 6.8K Thermistor(-10~+100°C) 12, : 4.7K Thermistor(-10~+100°C) 13: 3.3K Thermistor(-20~+100°C) 14: 3K Thermistor(-20~+100°C) 15: 2.7K Thermistor(-20~+100°C) 16: 2.252K Thermistor(-20~+100°C) 17: 2.1K Thermistor(-30~+100°C) 18: 2K Thermistor(-30~+100°C) 19: 1.5K Thermistor(-40~+100°C) 20: 1K Thermistor(-40~+100°C)
40097~40104	0~7 Current Input Value	R	R	4/0~20:4/0~20mA -270~+1800:-270~+1800°C
40113~40120	0~7 Current Input Value	R	R	4/0~20:4/0~20mA -168~+3272:-168~+3272° F
40129~40136	0~7 Current Input Value	R	R	40/0~200:4.0/0~20.0mA -2700~+18000:-270.0~+1800.0° C
40145~40152	0~7 Current Input Value	R	R	40/0~200:4.0/0~20.0mA -1680~+32720:-168.0~+3272.0° F
40161~40168	0~7 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	0x10 0x19
40212	Module Name 2	R	R	
40213	Version 1	R	R	0x01 0x12
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 m sec
40609~40624	0~7 Current Input Value	R	R	32-bit Floating Value (IEEE754)(Float CD AB)
40641~40656	0~7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754)(Float CD AB)
40673~40688	0~7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754)(Float CD AB)
40705~40720	0~7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float AB CD)
40737~40752	0~7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float AB CD)
40769~40784	0~7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float AB CD)
40801~40816	0~7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float BA DC)
40833~40848	0~7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float BA DC)
40865~40880	0~7 Current Input Value	R	R	32-bit Deg.F Floating Value (IEEE754) (Float BA DC)
40897~40912	0~7 Current Input Value	R	R	32-bit Floating Value (IEEE754) (Float DC BA)
40929~40944	0~7 Current Input Value	R	R	32-bit Deg.C Floating Value (IEEE754) (Float DC BA)
40961~40976	0~7 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
40222	CJC Value	R	R	-32767 ~ +32767: -327.67 ~ +327.67 Deg.C
40225	Set CJC Offset Value	R	R/W	-32767 ~ +32767: -327.67 ~ +327.67 Deg.C Default:0
40226~40233	Set The AI0~7 Offset Value (For Thermocouple/Thermistor)	R	R/W	-32767 ~ +32767: -327.67 ~ +327.67 Deg.C Default:0

## A-1051/A-1055/A-1055S/A-1069/A-1060

<b>Supported Modbus Code: 01/02/05/15</b>				
Address 0x	Item	NOR	INIT*	NOTE
00001~00016	0~15 DI Input Signal	R	R	
00017~00032	0~15 DO Output Value	R/W	R/W	
00033~00048	0~15 Power On Digital Output Value	R	R/W	
00049~00064	0~15 Communication Fail Safe Value	R	R/W	
<b>Supported Modbus Code: 03/04/06/16</b>				
Address 4x	Item	NOR	INIT*	NOTE
40065	Communication Fail Safe Time Setting Value	R	R/W	0~65535:Disable~65535msec
40211	Module Name 1	R	R	
40212	Module Name 2	R	R	
40213	Version 1	R	R	
40214	Version 2	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 m sec

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