

## A-1x/A-2x Series Address Mapping

**Supported Modbus Code: 01/02/05/15 ( Readable & writable in normal mode )**

Address	Description	R/W	Note
00001 ~ 00032	Main Digital Input Value ( I000 ~ I031)	R	(0/1)
00033 ~ 00064	Ext1 Digital Input Value ( I100 ~ I131)	R	(0/1)
00065 ~ 00096	Ext2 Digital Input Value ( I200 ~ I231)	R	(0/1)
00097 ~ 00128	Ext3 Digital Input Value ( I300 ~ I331)	R	(0/1)
00129 ~ 00160	Ext4 Digital Input Value ( I400 ~ I431)	R	(0/1)
00161 ~ 00192	Ext5 Digital Input Value ( I500 ~ I531)	R	(0/1)
00193 ~ 00224	Ext6 Digital Input Value ( I600 ~ I631)	R	(0/1)
00225 ~ 00256	Ext7 Digital Input Value ( I700 ~ I731)	R	(0/1)
00257 ~ 00272	Main Digital Output Value ( Q000 ~ Q016)	R	(0/1)
00273 ~ 00288	EXT1 Digital Output Value ( Q100 ~ Q116)	R	(0/1)
00289 ~ 00304	EXT2 Digital Output Value ( Q200 ~ Q216)	R	(0/1)
00305 ~ 00320	EXT3 Digital Output Value ( Q300 ~ Q316)	R	(0/1)
00321 ~ 00336	EXT4 Digital Output Value ( Q400 ~ Q416)	R	(0/1)
00337 ~ 00352	EXT5 Digital Output Value ( Q500 ~ Q516)	R	(0/1)
00353 ~ 00368	EXT6 Digital Output Value ( Q600 ~ Q616)	R	(0/1)
00369 ~ 00384	EXT7 Digital Output Value ( Q700 ~ Q716)	R	(0/1)
00385 ~ 00896	0~511 Digital Flag (M0 ~ M511)	R	(0/1)
00897 ~ 00912	0~15 Shift register bit (S0 ~ S15 )	R	(0/1)
00913	Flag of SCAN Time	R	(0/1)
01025 ~ 01056	Main Digital Input Force ON( I000 ~ I031)	R/W	(0/1)
01057 ~ 01088	Ext1 Digital Input Force ON( I100 ~ I131)	R/W	(0/1)
01089 ~ 01120	Ext2 Digital Input Force ON( I200 ~ I231)	R/W	(0/1)
01121 ~ 01152	Ext3 Digital Input Force ON( I300 ~ I331)	R/W	(0/1)
01153 ~ 01184	Ext4 Digital Input Force ON( I400 ~ I431)	R/W	(0/1)
01185 ~ 01216	Ext5 Digital Input Force ON( I500 ~ I531)	R/W	(0/1)
01217 ~ 01248	Ext6 Digital Input Force ON( I600 ~ I631)	R/W	(0/1)
01249 ~ 01280	Ext7 Digital Input Force ON( I700 ~ I731)	R/W	(0/1)
01281 ~ 01312	Main Digital Input Force OFF( I000 ~ I031)	R/W	(0/1)
01313 ~ 01344	Ext1 Digital Input Force OFF( I100 ~ I131)	R/W	(0/1)
01345 ~ 01376	Ext2 Digital Input Force OFF( I200 ~ I231)	R/W	(0/1)
01377 ~ 01408	Ext3 Digital Input Force OFF( I300 ~ I331)	R/W	(0/1)
01409 ~ 01440	Ext4 Digital Input Force OFF( I400 ~ I431)	R/W	(0/1)
01441 ~ 01472	Ext5 Digital Input Force OFF( I500 ~ I531)	R/W	(0/1)
01473 ~ 01504	Ext6 Digital Input Force OFF( I600 ~ I631)	R/W	(0/1)

01505 ~ 01536	Ext7 Digital Input Force OFF( I700 ~ I731)	R/W	(0/1)
01537 ~ 01552	Main Digital Output Force ON ( Q000 ~ Q016)	R/W	(0/1)
01553 ~ 01568	EXT1 Digital Output Force ON ( Q100 ~ Q116)	R/W	(0/1)
01569 ~ 01584	EXT2 Digital Output Force ON ( Q200 ~ Q216)	R/W	(0/1)
01585 ~ 01600	EXT3 Digital Output Force ON ( Q300 ~ Q316)	R/W	(0/1)
01601 ~ 01616	EXT4 Digital Output Force ON ( Q400 ~ Q416)	R/W	(0/1)
01617 ~ 01632	EXT5 Digital Output Force ON ( Q500 ~ Q516)	R/W	(0/1)
01633 ~ 01648	EXT6 Digital Output Force ON ( Q600 ~ Q616)	R/W	(0/1)
01649 ~ 01664	EXT7 Digital Output Force ON ( Q700 ~ Q716)	R/W	(0/1)
01665 ~ 01680	Main Digital Output Force OFF( Q000 ~ Q016)	R/W	(0/1)
01681 ~ 01696	EXT1 Digital Output Force OFF( Q100 ~ Q116)	R/W	(0/1)
01697 ~ 01712	EXT2 Digital Output Force OFF( Q200 ~ Q216)	R/W	(0/1)
01713 ~ 01728	EXT3 Digital Output Force OFF( Q300 ~ Q316)	R/W	(0/1)
01729 ~ 01744	EXT4 Digital Output Force OFF( Q400 ~ Q416)	R/W	(0/1)
01745 ~ 01760	EXT5 Digital Output Force OFF( Q500 ~ Q516)	R/W	(0/1)
01761 ~ 01776	EXT6 Digital Output Force OFF( Q600 ~ Q616)	R/W	(0/1)
01777 ~ 01792	EXT7 Digital Output Force OFF( Q700 ~ Q716)	R/W	(0/1)

**Supported Modbus Code: 01/02 ( Readable in normal mode )**

Address	Description	R/W	Note
02001~02004	Status of Function Block B0	R	
02005~02008	Status of Function Block B1	R	
02009~02012	Status of Function Block B2	R	
.....			
06093~06096	Status of Function Block B1023	R	

**Supported Modbus Code: 03/04 ( Readable in normal mode )**

Address	Description	R/W	Note
40001	Com0 model	R	0x00 : Slave 0x01 : Master
40002	Com0 protocol	R	0x00 : RTU 0x01 : ASCII
40003	Com0 device address	R	1~255
40004	Com0 baudrate	R	0x00 : 1200 0x01 : 2400 0x02 : 4800 0x03 : 9600 0x04 : 14400 0x05 : 19200 0x06 : 28800 0x07 : 38400 0x08 : 57600 0x09 : 115200
40005	Com0 parity	R	0x00 : None 0x01 : Odd 0x02 : Even
40006	Com0 data bit	R	0x00 : 7-bit 0x01 : 8-bit
40007	Com0 stop bit	R	0x00 : 1-bit 0x01 : 2-bit
40008	Com0 timeout	R	50 ~ 65535 ms
40009	Com0 delay between polls	R	0 ~ 65535 ms

40010	Com0 data register index	R	0x00 : High Low 0x01:Low High
40011	Com0 status flag	R	
40012	Com1 model	R	0x00 : Slave 0x01: Master
40013	Com1 protocol	R	0x00 : RTU 0x01 : ASCII
40014	Com1 device address	R	1~255
40015	Com1 baudrate	R	0x00 : 1200 0x01 : 2400 0x02 : 4800 0x03 : 9600 0x04 : 14400 0x05 : 19200 0x06 : 28800 0x07 : 38400 0x08 : 57600 0x09 : 115200
40016	Com1 parity	R	0x00 : None 0x01 : Odd 0x02 : Even
40017	Com1 data bit	R	0x00 : 7-bit 0x01 : 8-bit
40018	Com1 stop bit	R	0x00 : 1-bit 0x01 : 2-bit
40019	Com1 timeout	R	50 ~ 65535 ms
40020	Com1 delay between polls	R	0 ~ 65535 ms
40021	Com1 data register index	R	0x00 : High Low 0x01:Low High
40022	Com1 status flag	R	
40023	Com2 model	R	0x00 : Slave 0x01 : Master
40024	Com2 protocol	R	0x00 : RTU 0x01 : ASCII
40025	Com2 device address	R	1~255
40026	Com2 baudrate	R	0x00 : 1200 0x01 : 2400 0x02 : 4800 0x03 : 9600 0x04 : 14400 0x05 : 19200 0x06 : 28800 0x07 : 38400 0x08 : 57600 0x09 : 115200
40027	Com2 parity	R	0x00 : None 0x01 : Odd 0x02 : Even
40028	Com2 data bit	R	0x00 : 7-bit 0x01 : 8-bit
40029	Com2 stop bit	R	0x00 : 1-bit 0x01 : 2-bit
40030	Com2 timeout	R	50 ~ 65535 ms
40031	Com2 delay between polls	R	0 ~ 65535 ms
40032	Com2 data register index	R	0x00 : High Low 0x01:Low High
40033	Com2 status flag	R	

**Supported Modbus Code: 03/04 ( Readable in normal mode )**

Address	Description	R/W	Note
40211	Module Name 1	R	A-1188/1189 Ex:0x1188
40212	Module Name 2	R	0x0000
40213	Firmware Version 1	R	A1.00 Ex:0xA100
40214	Firmware Version 2	R	0x0000
40215	Mac Serial Number 1	R	
40216	Mac Serial Number 2	R	
40217	Mac Serial Number 3	R	
40218	Mac Serial Number 4	R	
40219	Mac Serial Number 5	R	

40220	Mac Serial Number 6	R	
40221	Redundancy condition	R	0x00: None 0x01:Master 0x02:Slave
40222	Redundancy operating time (low word) (ms)	R	0x0000 ~ 0xFFFF
40223	Redundancy operating time (Hi word) (ms)	R	0x0000 ~ 0xFFFF
40224	LCM Control Register	R	
40225	Machine internal temperature (度 C)	R	-32768 ~ 32767
40226	Controller Fault Status	R	
40227	System Status 1	R	
40228	System Status 2	R	
40229	Scan Cycle Time (ms)	R	1 ~ 65535
40230	Redundancy status	R	0x00 : stop 0x01:standby 0x02:active
40231	Power On Hours (Hr)	R	0~65535
40232	COM0 communication success rate 次/分	R	0~65535
40233	COM0 communication error rate 次/分	R	0~65535
40234	COM1 communication success rate 次/分	R	0~65535
40235	COM1 communication error rate 次/分	R	0~65535
40236	COM2 communication success rate 次/分	R	0~65535
40237	COM2 communication error rate 次/分	R	0~65535
40238	COM3 communication success rate 次/分	R	0~65535
40239	COM3 communication error rate 次/分	R	0~65535
40240	COM4 communication success rate 次/分	R	0~65535
40241	COM4 communication error rate 次/分	R	0~65535
40242	COM5 communication success rate 次/分	R	0~65535
40243	COM5 communication error rate 次/分	R	0~65535
40244	COM6 communication success rate 次/分	R	0~65535
40245	COM6 communication error rate 次/分	R	0~65535
40246	COM7 communication success rate 次/分	R	0~65535
40247	COM7 communication error rate 次/分	R	0~65535
40248	Downloading number of times	R	0~65535
40249	History Temperature_min (度 C)	R	-32768 ~ 32767
40250	History Temperature_max (度 C)	R	-32768 ~ 32767
40251	High temperature protection point	R	-32768 ~ 32767
40252	Low temperature protection point	R	-32768 ~ 32767
40253	Power On Count (low word)	R	0x0000 ~ 0xFFFF
40254	Power On Count (high word)	R	0x0000 ~ 0xFFFF
40255	DOWNLOAD_STATUS	R	0x00 : normal 0x01 : fail
40256	Last shutdown time-Week_RTC	R	0 ~ 6

40257	Last shutdown time-Year_RTC	R	2010 ~ 2036
40258	Last shutdown time-Month_RTC	R	1 ~ 12
40259	Last shutdown time-Day_RTC	R	1 ~ 31
40260	Last shutdown time-Hour_RTC	R	0 ~ 23
40261	Last shutdown time-Min_RTC	R	0 ~ 59
40262	Last shutdown time-Sec_RTC	R	0 ~ 59
40263	RTC Calibrate sign	R	0:plus 1:minus
40264	RTC Calibrate value	R	0 ~ 30 (sec/week)

**Supported Modbus Code: 03/04 ( Readable in normal mode )**

Address	Description	R/W	Note
40301	Week_RTC	R	0 ~ 6
40302	Year_RTC	R	2010 ~ 2036
40303	Month_RTC	R	1 ~ 12
40304	Day_RTC	R	1 ~ 31
40305	Hour_RTC	R	0 ~ 23
40306	Min_RTC	R	0 ~ 59
40307	Sec_RTC	R	0 ~ 59

**Supported Modbus Code: 03/04 ( Readable in normal mode )**

Address	Description	R/W	Note
40501 ~ 40508	Main Analog Input Value ( AI000 ~ AI007 )	R	
40509 ~ 40516	EXT1 Analog Input Value ( AI100 ~ AI107 )	R	
40517 ~ 40524	EXT2 Analog Input Value ( AI200 ~ AI207 )	R	
40525 ~ 40532	EXT3 Analog Input Value ( AI300 ~ AI307 )	R	
40533 ~ 40540	EXT4 Analog Input Value ( AI400 ~ AI407 )	R	
40541 ~ 40548	EXT5 Analog Input Value ( AI500 ~ AI507 )	R	
40549 ~ 40556	EXT6 Analog Input Value ( AI600 ~ AI607 )	R	
40557 ~ 40564	EXT7 Analog Input Value ( AI700 ~ AI707 )	R	
40565 ~ 40568	Main Analog Output Value ( AQ000 ~ AQ003 )	R	
40569 ~ 40572	EXT1 Analog Output Value ( AQ100 ~ AQ103 )	R	
40573 ~ 40576	EXT2 Analog Output Value ( AQ200 ~ AQ203 )	R	
40577 ~ 40580	EXT3 Analog Output Value ( AQ300 ~ AQ303 )	R	
40581 ~ 40584	EXT4 Analog Output Value ( AQ400 ~ AQ403 )	R	
40585 ~ 40588	EXT5 Analog Output Value ( AQ500 ~ AQ503 )	R	
40589 ~ 40592	EXT6 Analog Output Value ( AQ600 ~ AQ603 )	R	
40593 ~ 40596	EXT7 Analog Output Value ( AQ700 ~ AQ703 )	R	
40597 ~ 41108	0 ~ 511 Analog Flag Value ( AM0 ~ AM511 )	R	

**Supported Modbus Code: 03/04 ( Readable in normal mode )**

<b>Address</b>	<b>Description</b>	<b>R/W</b>	<b>Note</b>
42001~42004	Parameter of Function Block B0	R	
42005~42008	Parameter of Function Block B1	R	
42009~42012	Parameter of Function Block B2	R	
.....			
46093~46096	Parameter of Function Block B1023	R	

Block Type	Address 1	Address 2	Address 3	Address 4
AND	Block Output (0xxxx)	X	X	X
AND (Edge)	Block Output (0xxxx)	X	X	X
NAND	Block Output (0xxxx)	X	X	X
NAND (Edge)	Block Output (0xxxx)	X	X	X
OR	Block Output (0xxxx)	X	X	X
NOR	Block Output (0xxxx)	X	X	X
XOR	Block Output (0xxxx)	X	X	X
NOT	Block Output (0xxxx)	X	X	X
On-Delay	Block Output(0xxxx)	X	Timer (4xxxx)	X
Off-Delay	Block Output (0xxxx)	X	Timer (4xxxx)	X
On-/Off-Delay	Block Output (0xxxx)	X	Timer (4xxxx)	X
Retentive on-Delay	Block Output (0xxxx)	X	Timer (4xxxx)	X
Wiping relay (pulse	Block Output (0xxxx)	X	Timer (4xxxx)	X
Edge triggered wiping	Block Output (0xxxx)	X	Timer (4xxxx)	X
Asynchronous Pulse	Block Output (0xxxx)	X	Timer (4xxxx)	X
Random Generator	Block Output (0xxxx)	X	Timer (4xxxx)	X
Stairway lighting	Block Output (0xxxx)	X	Timer (4xxxx)	X
Multiple function	Block Output (0xxxx)	X	Timer (4xxxx)	X
Weekly Timer	Block Output (0xxxx)	X	X	X
Yearly Timer	Block Output (0xxxx)	X	X	X
Up/Down counter	Block Output (0xxxx)	X	Count Value (l) (4xxxx)	Count Value (h) (4xxxx)
Hours Counter	Block Output (0xxxx)	X	MN Value (l) (4xxxx)	MN Value (h) (4xxxx)
Threshold trigger	Block Output (0xxxx)	X	Count Value (l) (4xxxx)	Count Value (h) (4xxxx)
Analog Comparator	Block Output (0xxxx)	X	Actual values(Ax-Ay) (l) (4xxxx)	Actual values(Ax-Ay) (h) (4xxxx)
Analog threshold trigger	Block Output (0xxxx)	X	Actual value Ax (l) (4xxxx)	Actual value Ax (h) (4xxxx)
Analog Amplifier	Block Output (4xxxx)	X	Actual value Ax (l) (4xxxx)	Actual value Ax (h) (4xxxx)
Analog watchdog	Block Output (0xxxx)	Actual value Aen (4xxxx)	Actual value Ax (l) (4xxxx)	Actual value Ax (h) (4xxxx)
Analog differential	Block Output (0xxxx)	X	Actual value Ax (l) (4xxxx)	Actual value Ax (h) (4xxxx)
Latching Relay	Block Output (0xxxx)	X	X	X
Pulse Relay	Block Output (0xxxx)	X	X	X
Message texts	Block Output (0xxxx)	X	X	X
Shift register	Block Output (0xxxx)	X	Register Value (4xxxx)	X
Modbus Read	Block Output(0xxxx)	Count (4xxxx)	Data Address (4xxxx)	X
Modbus Write	Block Output(0xxxx)	Count (4xxxx)	Data1(Manual) / Data Address(Auto) (4xxxx)	Data2(Manual) (4xxxx)