RP2-1204M Modbus Address Map

Input Port

Input Port On/Off Status

Address	Function
10001	Input Port CH0
10002	Input Port CH1
10003	Input Port CH2
10004	Input Port CH3
10005	Input Port CH4
10006	Input Port CH5
10007	Input Port CH6
10008	Input Port CH7
10009	Input Port CH8
10010	Input Port CH9
10011	Input Port CH10
10012	Input Port CH11
10013	Input Port CH12
10014	Input Port CH13
10015	Input Port CH14
10016	Input Port CH15

Input Port Counter (32bit)

Address	Function
30001	Input Counter (32bit) CH0
30003	Input Counter (32bit) CH1
30005	Input Counter (32bit) CH2
30007	Input Counter (32bit) CH3
30009	Input Counter (32bit) CH4
30011	Input Counter (32bit) CH5
30013	Input Counter (32bit) CH6
30015	Input Counter (32bit) CH7
30017	Input Counter (32bit) CH8
30019	Input Counter (32bit) CH9
30021	Input Counter (32bit) CH10
30023	Input Counter (32bit) CH11
30025	Input Counter (32bit) CH12
30027	Input Counter (32bit) CH13
30029	Input Counter (32bit) CH14
30031	Input Counter (32bit) CH15

Last Input Port Button Press Type

Address	Function
30101	Input Port CH0
30102	Input Port CH1
30103	Input Port CH2
30104	Input Port CH3
30105	Input Port CH4
30106	Input Port CH5
30107	Input Port CH6
30108	Input Port CH7
30109	Input Port CH8
30110	Input Port CH9
30111	Input Port CH10
30112	Input Port CH11
30113	Input Port CH12
30114	Input Port CH13
30115	Input Port CH14
30116	Input Port CH15

32bit value arrangement

Arrangement <Addr2:Addr1>

E.g. Addr 30001 = 0x7890

Addr 30002 = 0x5560

Final Value will be

= <Addr 30002:Addr 30001>

= 0x55607890

Input Port Button Press Type Value

Value	Description
0	No Result/Idle
1	Single Click Press
2	Double Click Press
3	Tripple Click Press
4	Press & Hold for >5 sec.
5	Input On
6	Input Off

Input Port Configuration

Address	Function
40001	Config CH0
40002	Config CH1
40003	Config CH2
40004	Config CH3
40005	Config CH4
40006	Config CH5
40007	Config CH6
40008	Config CH7
40009	Config CH8
40010	Config CH9
40011	Config CH10
40012	Config CH11
40013	Config CH12
40014	Config CH13
40015	Config CH14
40016	Config CH15

Configuration Word Defination

Bit	Function
0	Invert Input, 0=No, 1=Yes
<2..1>	Input Mode, 0 = Push Button, 1= Normal Input Port, 2, 3 = Reserved
<7..3>	Reserved
<13..8>	Debounce Count, 2 to 50.
<15..14>	Reserved

Output Port

Output Port Read/Write On/Off Status

Address	Function
00101	Output Port CH0
00102	Output Port CH1
00103	Output Port CH2
00104	Output Port CH3

Configuration Word Defination

Config A	
Bit	**Function**
<7..0>	On Period, 100ms per count. Range: 1~255
<15..8>	Off Period, 100ms per count. Range: 1~255

Output Port Configuration

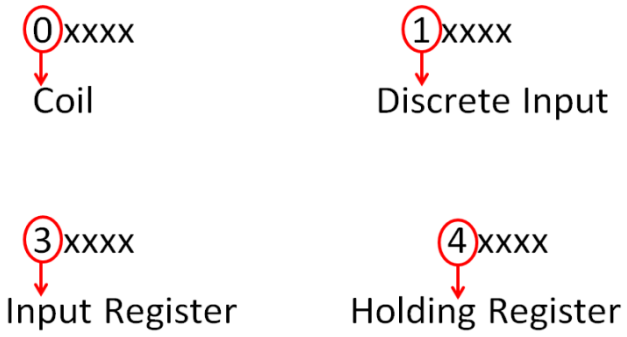
Address	Function
40101	Config A CH0
40102	Config B CH0
40103	Config A CH1
40104	Config B CH1
40105	Config A CH2
40106	Config B CH2
40107	Config A CH3
40108	Config B CH3

Config B	
Bit	**Function**
<9..0>	Total Pulse, 0=None Stop, 1~1000 Pulse Count
<14..10>	Reserve
15	Mode, 0 = Normal Output 1 = Pulse Mode

Temperature Sensor

Address	Function
40201	Temperature in 0.1˚C

Modbus Register



Discrete coils "0x" (read-write boolean)

Coil = 00001-09999 {"Coil" is a boolean (bit) variable}

Discrete inputs "1x" (read-only boolean)

Discrete Input = 10001-19999

Input registers "3x" (read-only integer, 16bit)

Input Register = 30001-39999 { "Register" is an integer (word) variable }

Holding registers "4x" (read-write integer, 16bit)

Holding Register = 40001-49999