

Communication Address Code Table

Haiwell PLC Bit Component

Equivalently Modbus address type 0, 1, support Modbus function code 1, 2, 5, 15)

Component	Name	Component Range	Read/ Write	Modbus Communication Address Code		Declare
				Hexadecimal	Decimal	
X	External input	X0~X1023	R	0x0000~0x03FF	0~1023	
Y	External output	Y0~Y1023	R/W	0x0600~0x09FF	1536~2559	
M	Auxiliary relay	M0~M12287	R/W	0x0C00~0x3BFF	3072~15359	
T	Timer(output coil)	T0~T1023	R/W	0x3C00~0x3FFF	15360~16383	
C	Counter(output coil)	C0~C255	R/W	0x4000~0x40FF	16384~16639	
SM	System status bit	SM0~SM215	all be read, some be wrote	0x4200~0x42D7	16896~17111	
S	Step relay	S0~S2047	R/W	0x7000~0x77FF	28672~30719	

Haiwell PLC Register Component

(Equivalently Modbus address type 3, 4, support Modbus function code 3, 4, 6, 16)

Component	Name	Component Range	Read/ Write	Modbus Communication Address Code		Declare
				Hexadecimal	Decimal	
CR	Extension module parameter	CR0~CR255	All can be read, some can be wrote	0x00~0xFF	0~255	Use Modbus protocol to access Extension module
AI	Analog input register	AI0~AI255	R	0x0000~0x00FF	0~255	
AQ	Analog output register	AQ0~AQ255	R/W	0x0100~0x01FF	256~511	
V	Internal data register	V0~V14847	R/W	0x0200~0x3BFF	512~15359	
TV	Timer(current value)	TV0~TV1023	R/W	0x3C00~0x3FFF	15360~16383	
CV	Counter(current value)	CV0~CV255	R/W	0x4000~0x40FF	16384~16639	16 bit register, among CV48~CV79 32 bit register
SV	System special register	SV0~SV900	All can be read, some can be wrote	0x4400~0x4784	17408~18308	

Declare:

- Haiwell PLC use the stand Modbus protocol (support RTU and ASCII mode),can communicate to HMI and configuration soft which support Modbus protocol
- Haiwell PLC's Modbus addressing number from 0, Some HMI or configuration soft from 1,if HMI or configuration soft modbus addressing from 0 then communicate direct, e.g. M0 is 0x3072,V0 is 4x0512. if HMI or configuration soft modbus addressing from 1 then the address must add 1,e.g.M0 is 0x3073[3072+1],V0 is 4x0513[512+1].The first place address is the Modbus protocol component type(0/1 is bit relay ,3/4 is word register , 0/4 can read and write,1/3 read only)other places are the component address.