

HA MODBUS USER INSTRUCTIONS

1,. RS485/RS232 communication

start bit	data bit	stop bit	Odd-even check	Baud rate
1	8	1	无	9600Bit/ S

2, The format of the data reading and writing is same as standard Modbus protocol. Definition as follows:

Request: (eg. send order to read: 01 03 00 62 00 02 65 D5)

01	03	0098(0062H)	0002	26069 (65D5)
ADD	COM	PV1	Counts	CRC

Response: (eg:01 03 04 6D 96 49 F3 71 66)

01	03	04	6D96 49F3	7166
ADD	COM	Counts	PV1	CRC

Return Power: 2 WORD

PV1= 6D96 49F3 = 6D96.49F3H = INT 6D96H+ DEMICAL 49F3H=28054 (=6D96H) +18931 (49F3H) =28054.2888

PV1 = 6D96 49F3=6D96.49F3H= INT 6D96H+ POINT 49F3H=28054+18931/65536=28054.2888
(49F3H=18931 6D96H=28054)

When Max bit is "1",means negative, viz. sign bit.

Ed96 bit 15=1 is negative,viz.-6D96H

3, When setting parameters, can read multi- parameters; when writing, can write 1 parameter only every time
And the data should be in HEX format.eg.100.5, INT 100=0064H,0.5=0.8000H,the right data should be 100.5=0064 .8000H

4, Commands:

02H: read digital value / discrete I/O parameters

03H: read holding registers parameters

06H: write single holding register parameter value

10H: write multi holding registers parameters value

5, Communication parameters:

HA8 meter reading and writing parameter

Factory setting	Parameters	Parameter address (HEX)	Data numbers (WORDS)	Function	Remark
	PV1	0098 (62H)	2	Temperature measuring value	Read only
	PV2	0101(65H)	2	Humidity measuring value	Read only
90.0	AL1	0000	2	AL1High alarm value	R / W

	HY1	0004	2	AL1Hysteresis/low limit value	R/W
H: high alarm	AM1	0007	1	AL1 mode setting	R/W
70.0	AL2	0008	2	AL2High alarm value	R / W
	HY2	0012	2	AL2Hysteresis/low limit value	R/W
H: high alarm	AM2	0015	1	AL2 mode setting	R/W
50.0	AL3	0016	2	AL3High alarm value	R / W
	HY3	0020	2	AL3Hysteresis/low limit value	R/W
H: high alarm	AM3	0023	1	AL3 mode setting	R/W
10.0	AL4	0024	2	AL4High alarm value	R / W
	HY4	0028	2	AL4Hysteresis/low limit value	R/W
H: high alarm	AM4	0031	1	AL4 mode setting	R/W
0.00	PFT	0032	4	Temp. offset value	R / W
000	PFA	0036	2	Humidity offset value	R / W
TH	BSL	0039	1	Analog output selectin	R/W
0. 00	TRL	0040	2	Low analog display	R/W
100	TRH	0044	2	High analog display	R/W
0001	Add	0047	2	Communication address	R / W

Note: AM1 AM2 AM3 AM4 alarm mode: 0000: L Temp. low limit; 0001: H Temp. high limit;
0002: L Humidity low limit 0003: Humidity high limit;
0004: Temp interval alarm; 0005: Humidity interval alarm.