

GA MODBUS USER INSTRUCTIONS

1, The instrument RS485 communication BPS is fixed at 9600 bits/s, start bit=1, data bit=8, stop bit=1, starting and ending time >5ms. RS485 通信，波特率 9600 BIT/S，停止位、起始位各 1 位，数据位 8 位

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

Request: (如，发送读 PV1 输出反馈值命令: 01 03 00 62 00 02 65 D5)

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

Response: (仪表返回数据: 01 03 04 6D 96 49 F3 71 66)

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

返回数据为 2 WORD，即 PV1= 6D96 49F3 = 6D96.49F3H = 其中整数值为 6D96H+ 小数值 49F3H=28054 (=6D96H) +18931 (49F3H) =28054.2888，频率最多取小数后两位显示

读出的数中,前一个字为整数,后一个字数为小数,将后一字 16 位值化为整数再除以 65536 即为十进制小数值。
如上例中 49F3H=18931 / 65536=.2888,取四位小数为 0.2888

3, When setting parameters, can read multi- parameters; when writing, can write 1 parameter only every time
写数时,要把小数转为 16 进制 HEX 格式,如 100.5,整数 100=0064H,0.5=0.8000H,则写入为 100.5=0064 .8000H

4, Commands:可用命令

03H: read holding registers parameters 读参数值

06H: write single holding register parameter value 写单字节

10H: write multi holding registers parameters value 多字节写

5, Communication parameters:

meter reading and writing parameter

Factory setting	Parameters	Parameter address (HEX)	Data numbers (bytes)	Function	Remark
					Read only
	PV1	98 (62H)	4	实际输出值	Read only
0001	Add	40 (28H)	2	Communication address	R / W
000	INP	7 (07H)	2	输出信号预置	
100. 0	SV	36	4	输出预值	R / W