

GF 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, 无奇偶校验

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

Request: (如, 发送读 PV1 频率值命令: 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
	PV1	0098 (62H)	4	频率测量或输出值 input measuring value	Read only
	MAN	0000	2	数字模拟输出选择	Read only
0001	Add	0015 (0FH)	2	仪表通信地址号 Communication address	R / W
100. 0	SV	0080 (50H)	4	数字输出频率预置值	R / W