

# **MFA 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.

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

Request: (eg: send order to read PV1: 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+ POINT 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 )

The meter can specify margins to 2 demical places at most.

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 written as 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:

DA8 meter reading and writing parameter (PV1: frequency PV2: duty cycle)

Factory setting	Parameters	Parameter address (HEX)	Data numbers (bytes)	Function	Remark
	PV2	0236 (ECH)	4	Duty cycle value	Read only
	PV1	0098 (62H)	4	Frequency input measuring value	Read only
90.0	AL1	0000	4	Alarm 1 set value	R / W
H: high alarm	AM1	0003	2	Alarm 1 mode setting	
L: Low alarm	AL2	0004	4	Alarm 2 set value	R / W
50.0	AM2	007	2	Alarm 2 mode setting	R / W
0.00	PVF	0012	4	PV1 correction value	R / W
0001	Add	0015	2	Communication address	R / W
000	LCK	0016	2	Parameters locking	R / W

