

DM8 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 data: PV1 = 6D96.49F3H = INT 6D96H+ POINT 49F3H=28054 (decimal system) +18931 (decimal system) =28054.18931

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

e.g.: PV1=ED9649F3= ED96.49F3H = -(6D96H+0.49F3H) = -28054.1893

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

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

41H: instrument calibration command

DM8 meter reading and writing parameter

Factory setting	Parameters	Start address (HEX)	Counts	Function	Remark
/	PV1	0098 (62H)	2	measuring value	Read only
/					
/					
90.0	AL1	0000	2	Alarm 1 set value	R / W
H: high alarm	AM1	0003	1	Alarm 1 mode setting 0 : H 1: L	R/W
10.0	HY1	0004	2	Alarm 1	R / W

mA	INP	0011	1	Input signal type	R/W
0. 0	LSP	0012	2	Low limit display value	R/W
100. 0	USP	0016	2	High limit display value	R/W
0.00	PVF	0008	2	Offset value	R / W
0001	Add	0015	1	Communication address	R / W
000	LCK	0027	1	Parameters locking	R / W

Note:

1. Input signal code: INP: 0000: mA , 0001: V, 0002: A 0003: Mv 0004: rt 0005: Pt100, 0005:B

0006: S 0007: R 0008 : T 0009: E 0010:J 0011 :K

2. Presentation software can be load in our website: WWW.mypinchina.com The operating file is named Modlinkdemo. In this document, “register access” is conresponding to “ s t a r t a d d r e s s & c o u n t ” ,press “R E A D H o l d i n g registers” to read the INT and POINT start from right side.