

# **DP MODBUS USER INSTRUCTIONS**

## 1 RS485/RS232 communication

start bit	data bit	stop bit	Parity check	Baud rate
1	8	1	No	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 PV1: 01 03 00 62 00 02 65 D5)

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

Response: (eg. Return: 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:

meter reading and writing parameter

Factory setting	Parameters	Parameter address (HEX)	Data numbers (bytes)	Function	Remark
	PV1	0098 (62H)	4	Displaying value	Read only
90.0	AL1	0000	4	AL1(alarm value)	R / W
H: high alarm	AM1	0003	2	AL1(alarm mode)	

H: high alarm	HY1	0004	4	AL1 (alarm hysteresis)	
10.0	AL2	0008	4	AL2(alarm value)	R / W
L: Low alarm	AM2	00011	2	AL2(alarm mode)	R / W
H: high alarm	HY2	0012	4	AL2 (alarm hysteresis)	R / W
0001	DP	0015	2	decimal point setting	
	PVF	0016	4	Offset value	R / W
0001	SFT	0019	2	Baud rate	
	LSP	0020	4	PV1 low limit display setting	
0.00	USP	0024	4	PV1 high limit display setting	R / W
	TRL	0028	4	PV1 analog low limit setting	R/W
	TRH	0032	4	PV1 analog high limit setting	R / W
001	ADD	0035	2	Communication address	R / W
000	LCK	0036	2	Parameters locking	R / W