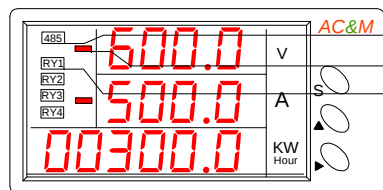


DMDPW MANUAL

1. Operation Panel / Keys



S key : setting/confirm
 Δ key : select/change number
 > key : shift position / turn page

2. Parameter Setting

2-1 Basic Setting

Press "S" to enter Func Press "Δ" to enter setting		
Display	Function	Instruction
Func Press S	(MENU)	
ModE Press Δ	Mode	No need to set.
U-dS Press S	Input Voltage Display	Preset as your order specifications. If you order 600V, the preset value is 600.
A-dS Press S	Input Current Display	Preset as your order specifications. If you order 100A, the preset value is 100
Unit Press Δ	W Unit	Press > to select W unit. W(W) / KW(KW)
dot Press Δ	Decimal Point Setting	Press > to set Voltage decimal point. Press Δ. Press > to set Ampere decimal point. Press Δ Press > to set Watt decimal point. Press S to next setting.
oUt Press Δ	Output signal: Corresponding value(Low)(High):	Press > to select 4-20ma/0-20ma/0-5V/1-5V/0-10V Press > and Δ to set for Low. Range: 0-9999Count Press > and Δ to set for High. Range: 0-9999Count
CH1 Press Δ	Corresponding group:	Press S to enter. Press Δ to select CH1-2-3
485 Press Δ	Baud rate Address Format	Press > to select 9600-19200-38400-1200-2400-4800 Press > to enter. Press Δ to set: 1-99 Press > to enter. Press Δ to select 8N1-8N2-8E1-8E2-8O1-8O2
PULS Press Δ	Pulse(DO) Output	Press > to select (1000-100-10-1-0.1-0.01-0.001) Pulse /1 Count *(1 Count means the display value is accumulated by 1. If the display value changes from 100.1MW to 100.2MW it means 1Count)
Func Press Δ	No function	No need to set.
SAvE Press S	Save setting	Press > to select YES . Press S to finish setting.

2-2 Auto page-turning

Operation:
 Enter **Func-0000** , key in **0043** and press S to enter setting , press > to select **Auto / Stop**
 Press S to finish setting.

2-3 Reset WH values

Operation:
 Turn to WH display , press > for 2 seconds to enter **WH** mode.
 Key in **0099** to reset WH values.
 Press S to finish setting.

2-4 Buffer size

Operation:
 Enter **Func-0000** , key in **0011** and press S to enter setting , press > to select **LO / HIGH / FAST**
 Press S to finish setting.

3. Relay Setting

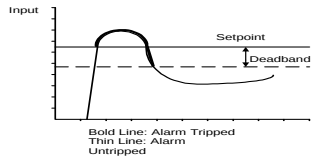
3-1 Basic Setting

Press "S" to enter Func Press "Δ" to enter setting		
Display	Function	Instruction
Func Press S	(MENU)	
CH1 Press S	RY1 Corresponding signal	Press > to select CH1-2-3-AVG-MAX Press S to next setting.
HI Press S	RY1 HI / LO	Press > to select HI or LO Press S to next setting.
9999 Press S	RY1 Action point	Press > and Δ to set(range: 0-9999) Press S to next setting.
9999 Press S	RY1 Deadband	Press > and Δ to set(range: 0-9999) Press S to next setting.
999 Press S	RY1 Delate time	Press > and Δ to set(range: 0-9999) Press S to next setting.
r2 r3 r4	RY2 RY3 RY4	Please refer to RY1 setting
dELy Press S	Start delay time	Press > and Δ to set(range: 0-9999) Press S to next setting. Note:(Zero no alarm)
SAvE no	Save setting	Press > to select YES ,and press S to save setting.

3-2 Alarm Function Illustration

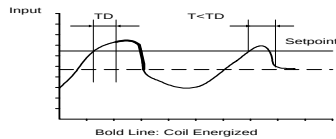
1.HIGH ALARM : (Deadband)

When input signal is over setpoint, Relay is activated until signal is under Deadband



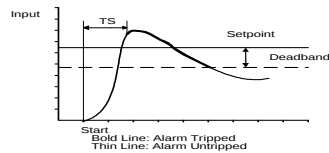
3.ON DELAYTIME :

When input signal is over setpoint, relay will be activated after the set time.



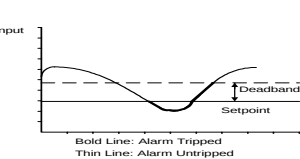
5.START DELAY TIME :

Input signal starts from 0. No alarm function within TS.



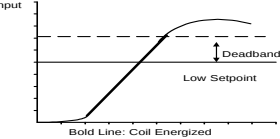
2.LOW ALARM : (Deadband)

When Input signal is under setpoint, Relay is activated until signal is over Deadband



4.ZERO NO ALARM :

When input signal is under 0.3%,no low alarm function Set 58 >0 to activate this function.



4.Communication Setting

MODBUS – RTU MODE

Data Format

(ID Number)	(Function Code)	(Data)	CRC
1Byte	1Byte	N Byte	2 Byte

Function Code

03 (03H)	Read parameters of the meter
06 (06H)	Set parameter.

Ex1. Read the Voltage display value

Master sends message TX : 01 03 00 01 00 01 D5 CA				
ID Number	Function	Address	DATA number	CRC
1Byte	1Byte	2Byte	2Byte	2Byte
(01H)	(03H)	(00 01H)	(00 01H)	(D5 CAH)

Instruction: Master calls meter ID No.1 to read address 0002.Data number 0001

If the meter displays 1000

Meter responses to Master RX : 01 03 02 03 E8 B8 FA				
ID Number	Function	Byte	Data	CRC
(01H)	(03H)	(02H)	(03E8H)	(B8 FAH)

Ex2. Read parameters of the Meter

Master sends message to Meter				
ID Number	Function	Address	DATA number	CRC
1Byte	1Byte	2Byte	2Byte	2Byte
(01H)	(03H)	(00 02H)	(xxH,xxH = N)	(xxH,xxH)

Meter responses to Master				
ID Number	Function	Byte	Data	CRC
(01H)	(03H)	(XXH = N)	(N*2Byte) XxH,xxH.xxH.....	(xxH,xxH)

Parameter/Address Cross-reference(Refer to ModScan32)

Address	Length	Name	Instruction	(Read/Write)
01 (40002)	2Byte	Voltage display value	-32768-32767	R
02 (40003)	2Byte	Ampere display value	-32768-32767	R
03 (40004)	2Byte	Watt display value	-32768-32767	R
04 (40005)Low	4Byte	+WH (accumulated value)	Integral 0-3999999999Count	R
05 (40006)High	4Byte	-WH (accumulated value)	Integral 0-3999999999Count	
06 (40005)Low	4Byte	-WH (accumulated value)	Integral 0-3999999999Count	
07 (40006)High	4Byte	-WH (accumulated value)	Integral 0-3999999999Count	
08 (40009)	2Byte	Decimal Point / W unit	0000 0000 0000 0000 W=0 DS3 DS2 DS1 KW=1 (Decimal Point)	R
09 (40010)	2Byte	Relay state	Bit0=RY1 0001 is ON Bit1=RY2 0010 is ON Bit2=RY3 0100 is ON Bit3=RY4 1000 is ON	R