

Mikro[®]

v3.0

Digital Power Meter

Modbus Table

DPM380 / DPM380B



Modbus Table

Read Only (Function 0x03 or 0x04)				
Register	Description	Unit	Range	Type
4000-4001	Negative real energy	1kWh	0-999999.99M	Unsigned integer
4002-4003	Positive real energy	1kWh	0-999999.99M	Unsigned integer
4004-4005	reserved,always return 0			
4006-4007	Apparent energy	1kVAh	0-999999.99M	Unsigned integer
4008-4009	Negative reactive energy	1kVArh	0-999999.99M	Unsigned integer
4010-4011	Positive reactive energy	1kVArh	0-999999.99M	Unsigned integer
4012-4013	Total real power	1W	-2000M to 2000M	Signed integer
4014-4015	Total apparent power	1VA	-2000M to 2000M	Signed integer
4016-4017	Total reactive power	1VAR	-2000M to 2000M	Signed integer

Read Only (Function 0x03 or 0x04)				
Register	Description	Unit	Range	Type
4018	Total power factor	0.001	0 to 1.000	Unsigned integer
4019	Frequency	0.01Hz	45 to 65	Unsigned integer
4020-4021	Instantaneous Current L1	0.001A	0.005 to 15 (secondary)	Unsigned integer
4022-4023	Instantaneous Current L2	0.001A	0.005 to 15 (secondary)	Unsigned integer
4024-4025	Instantaneous Current L3	0.001A	0.005 to 15 (secondary)	Unsigned integer
4026-4027	Instantaneous Current Ln	0.001A	0.010 to 15 (secondary)	Unsigned integer
4028-4029	Voltage Phase L12	0.1V	20.0 to 520 (secondary)	Unsigned integer
4030-4031	Voltage Phase L23	0.1V	20.0 to 520 (secondary)	Unsigned integer
4032-4033	Voltage Phase L31	0.1V	20.0 to 520 (secondary)	Unsigned integer

Read Only (Function 0x03 or 0x04)				
Register	Description	Unit	Range	Type
4034-4035	Voltage Phase L1	0.1V	10.0 to 300 (secondary)	Unsigned integer
4036-4037	Voltage Phase L2	0.1V	10.0 to 300 (secondary)	Unsigned integer
4038-4039	Voltage Phase L3	0.1V	10.0 to 300 (secondary)	Unsigned integer
4040-4041	Real Power L1	1W	-2000M to 2000M	Signed integer
4042-4043	Real Power L2	1W	-2000M to 2000M	Signed integer
4044-4045	Real Power L3	1W	-2000M to 2000M	Signed integer
4046-4047	Apparent Power L1	1VA	-2000M to 2000M	Signed integer
4048-4049	Apparent Power L2	1VA	-2000M to 2000M	Signed integer
4050-4051	Apparent Power L3	1VA	-2000M to 2000M	Signed integer

Read Only (Function 0x03 or 0x04)				
Register	Description	Unit	Range	Type
4052-4053	Reactive Power L1	1VAR	-2000M to 2000M	Signed integer
4054-4055	Reactive Power L2	1VAR	-2000M to 2000M	Signed integer
4056-4057	Reactive Power L3	1VAR	-2000M to 2000M	Signed integer
4058-4063	reserved,always return 0			
4064-4065	Real Power Demand	1W	-2000M to 2000M	Signed integer
4066-4067	Maximum Real Power Demand	1W	-2000M to 2000M	Signed integer
4068-4081	reserved,always return 0			
4082	THD Current L1	0.1%	0 to 1000	Unsigned integer
4083	THD Current L2	0.1%	0 to 1000	Unsigned integer
4084	THD Current L3	0.1%	0 to 1000	Unsigned integer

Read Only (Function 0x03 or 0x04)				
Register	Description	Unit	Range	Type
4085	THD Voltage L1	0.1%	0 to 1000	Unsigned integer
4086	THD Voltage L2	0.1%	0 to 1000	Unsigned integer
4087	THD Voltage L3	0.1%	0 to 1000	Unsigned integer

Read Only (Function 0x03 or 0x04)		
Register	Description	Unit
4088	*Energy full flag bit 7 to 5 = reserved bit 4 = negative kVARh bit 3 = negative kWh bit 2 = kVAh bit 1 = positive kVARh bit 0 = positive kWh	
1000	device ID	1-127

*if the energy is full, the bit is set to 1, else bit is 0.

Read Only (Function 0x03 or 0x04)		
Register	Description	Unit
1001	Parity	1=none 2=even 3=odd
1002	Baudrate	1=2400 2=4800 3=9600 4=19200 5=38400
0-1	reserved	
2-3	DeviceType	'301'
4-5	Version	'300'

Read or write (Function 0x03,0x04 or 0x06)		
Register	Description	Range
100	PT ratio primary	100-33kV
101	PT ratio secondary	100-120V
102	CT ratio primary	5-8000A
103-108	reserved,always return 0	
109	System scroll	0 or 1
110	Neutral setting	0 or 1
111	Minutes	0-59
112	Hours	0-23
113	Days	0-9999

NOTE: Register list is based on firmware version 3.0



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