

# ModBus Point Map

## Class 3000 and Class 5000 Meters



**E-Mon D-Mon**  
Metering Products & Systems

Modbus Point Map		1.03		12/23/03								
ITEM	PM-I	W	PM-F	UOM	CALC.	MEM	OP	DESCRIPTION	CL 3000	CL 5000		
1	40001	2	41001	kWh	T-del	NV	R/W	Energy delivered	Y	Y		
2	40003	2	41003	kWh	T-rec	NV	R/W	Energy received	Y	Y		
3	40005	2	41005	kVARh	T-del	NV	R/W	Reactive energy delivered	Y	Y		
4	40007	2	41007	kVARh	T-rec	NV	R/W	Reactive energy received	Y	Y		
5			41009	kW	T		R	Real power	Y	Y		
6			41011	kVAR	T		R	Reactive power	Y	Y		
7			41013	kVA	T		R	Apparent power	Y	Y		
8			41015	%	T		R	Power factor	Y	Y		
9			41017	Amps	T		R	Current total	Y	Y		
10			41019	Amps	A		R	Current average	Y	Y		
11			41021	Volts-N	A		R	Voltage line-neutral	Y	Y		
12			41023	Volts-L	A		R	Voltage line-line	Y	Y		
13			41025	Hz	A		R	Frequency	Y	Y		
14			41027	Degree	A		R	Phase angle	Y	Y		
15			41029	kW	ØA		R	Real power, phase A	Y	Y		
16			41031	kW	ØB		R	Real power, phase B	Y	Y		
17			41033	kW	ØC		R	Real power, phase C	Y	Y		
18			41035	kVAR	ØA		R	Reactive power, phase A	Y	Y		
19			41037	kVAR	ØB		R	Reactive power, phase B	Y	Y		
20			41039	kVAR	ØC		R	Reactive power, phase C	Y	Y		
21			41041	kVA	ØA		R	Apparent power, phase A	Y	Y		
22			41043	kVA	ØB		R	Apparent power, phase B	Y	Y		
23			41045	kVA	ØC		R	Apparent power, phase C	Y	Y		
24			41047	% PF	ØA		R	Power factor, phase A	Y	Y		
25			41049	% PF	ØB		R	Power factor, phase B	Y	Y		
26			41051	% PF	ØC		R	Power factor, phase C	Y	Y		
27			41053	Amps	ØA		R	Current, phase A	Y	Y		
28			41055	Amps	ØB		R	Current, phase B	Y	Y		
29			41057	Amps	ØC		R	Current, phase C	Y	Y		
30			41059	Volts-N	ØA		R	Voltage, line to neutral, phase A-N	Y	Y		
31			41061	Volts-N	ØB		R	Voltage, line to neutral, phase B-N	Y	Y		
32			41063	Volts-N	ØC		R	Voltage, line to neutral, phase C-N	Y	Y		
33			41065	Volts-L	ØA		R	Voltage, line to line, phase A-B	Y	Y		
34			41067	Volts-L	ØB		R	Voltage, line to line, phase B-C	Y	Y		
35			41069	Volts-L	ØC		R	Voltage, line to line, phase C-A	Y	Y		
36			41071	Degree	ØA		R	Phase angle, phase A	Y	Y		
37			41073	Degree	ØB		R	Phase angle, phase B	Y	Y		
38			41075	Degree	ØC		R	Phase angle, phase C	Y	Y		
ITEM	PM-I	W	DATA (SAMPLE)						DESCRIPTION			
	46001	8	504D 324B 0102 1016 0300 454D 4F4E 2020						Firmware version: PM 5K, Ver, Ver date/time, EMON			R
	46009	8	456E 6572 6779 204D 6574 6572 0000 0000						Device description: Emon Dmon Energy Meter			R
	46017	8	1356 4503 0613 0300 0000 0000 0000 0000						Initialize device with date/time			W
	46025	8	1356 4503 0613 0300 0000 0000 0000 0000						RTC date/time, will accept broadcast command			R/W
	46033	8	1356 4503 0527 0300 0000 0000 0000 0000						CPU date/time (7 bytes, rest is reserved for other future formats)			R/W
	46041	8	0001 0001 0000 0000 0000 0311 0020 1100						Group, location, Device ID number			R/W
	46049	8	0041 0000 0000 0000 0000 0311 0020 1100						Dev. ID, Hookup, Serial numbers....			R/W
	46057	8	0592 0007 0000 0000 0000 0000 0000 0000						Recorder info.: idr, dem. int., dem. win., dem. syn., timezone, DST...			R/W
	46065	8	0101 0001 0D03 3531 1000 0320 0000 0000						Meter info.: SN1&2, pulse rate, Volt/Amp/CTs, PF/mult1&2, CT, PT			R/W
	46513	8	0000 0101 0000 0000 0000 0100 0000 0000						Flags L1			
	46521	8	0000 0000 0000 0000 0000 0000 0613 0316						Flags L2			
	46529	8	0000 0000 0000 0000 0000 0000 0000 0000						Flags L3			
	46537	8	0000 0000 0000 0000 0000 0000 0000 0000						Flags L4			

Note: To change device ID, set single point at 46049 with data set to new device ID (e.g., 1 to 247).  
 To set date/time, set multiple points at 46025 for 4 points with data set to HHMM SSDW MMDD YYYY (DW=day of week).  
 To clear single meter kWh/kW, set single point at 41001 with data set to 0000 (similarly for 41003, 41005, 41007).  
 To clear multiple meter readings, set multiple point at 41001 for 8 points with data set to 0000's.  
 Note: Jumper J5 & J6 must be closed in order for kWh del/rec and kVARh del/rec to be cleared.

