Modbus Register Map: PMM

990-5979F
August 2026

Notes:
1. 16-bit registers are transmitted MSB first (i.e. big-endian).
2. INT32 and UINT32 are most-significant word in n+0, least significant word in n+1 (i.e. big-endian).
3. Function codes 3 and 4 are supported
4. Modbus serial RTU and Modbus over TCP is supported.
5. Signed numbers are twos-compliment
6. Status bits are atomic within a single Modbus register. User should not look for consistency across multiple registers, only within a single register.
7. For ASCII strings less than the maximum length, the unused characters are filled with nulls.
8. Single-register reads of reserved or undefined registers will return an error. Block reads which begin with a valid register will not return an error but will return zeros for undefined registers.
9. Strings are two characters per register, first character in high-order byte, second character in low-order byte. Printable ASCII only.
10. Bit #0 is least significant bit.
11. Data Type column: "INT16"=signed 16-bit integer, "UINT16" = unsigned 16-bit integer, "INT32" = signed 32-bit integer, "UINT32" = unsigned 32-bit integer, "ENUM" is a UINT16 value which maps to a defined list of states, "ASCII" = the printable ASCII subset from 0x20 - 0x7E. BOOLEAN= a single bit, 0 or 1.
12. "Absolute Starting Register Address" = 0 (the column heading used in this table) is equivalent to "Register 40001" in Modicon terminology, which is address zero when transmitted over the wire.
13. The number of word by frame should not exceed 26 words.
14. Modbus poll/scan tool will display Long data type in long inverse mode to get negative values
15. Following registers like Branch Configuration (#1 to #42), Branch Measurements (#1 to #42), Branch Alarm Register 1 (#1 to #42), Branch Alarm Register 2 (#1 to #42), Branch Alarm Configuration Register (Breaker #1 to #42) expanded register view or cells are not explicity shown due to documentation format restriction. #1 to #42 says 42 branch meters register set data is consecutive.
16. RESERVED registers should not be polled. Note that data may be inconsistent or illegal data address.

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
Static Data										
40001	0	0		NA	RESERVED	1				
40002	1	1		RO	Display/NMC Model Number	9	ASCII			character string
40011	A	10		RO	Display/NMC Serial Number	8	ASCII			character string
40019	12	18		RO	Display/NMC Firmware Revision APP	9	ASCII			character string
40028	1B	27		RO	Display/NMC Hardware Revision	9	ASCII			character string
40037	24	36		RO	Display/NMC Date of Manufacture	6	ASCII			character string
40043	2A	42		NA	RESERVED	40				
40083	52	82		RO	Product Name	20	ASCII			Power Management Module
40103	66	102		RO	Input Meter Type	1	UINT16			0 = NONE 1 = EM3550 2 = PM5564
40104	67	103		RO	Output Meter Type	1	UINT16			0 = NONE 1 = EM3550 2 = PM5564 3 = PM8000 4 = HDPM6000
40105	68	104		RO	Branch Meter Type	1	UINT16			0 = NONE 3 = MCM 4 = HDPM
40106	69	105		RO	Transformer Type	1	UINT16			0 = Alum 1 = Copper
40107	6A	106		RO	System Protection Type	1	UINT16			0 = MIB 1 = MIB+MOB 2 = MIS+MOB 3 = MIS
40108	6B	107		RO	RESERVED	122				
40230	**E5**	**229**		**RO**	**Input Alarm/Status Register 1**	**1**				
			0		Voltage Maximum alarm L1-2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Voltage Minimum alarm L1-2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		Voltage High alarm L1-2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		Voltage Low alarm L1-2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			4		Voltage Maximum alarm L2-3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			5		Voltage Minimum alarm L2-3		BOOLEAN			0 = No Alarm 1 = Alarm Active

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
			6		Voltage High alarm L2-3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			7		Voltage Low alarm L2-3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			8		Voltage Maximum alarm L3-1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			9		Voltage Minimum alarm L3-1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			10		Voltage High alarm L3-1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			11		Voltage Low alarm L3-1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			12		NA		BOOLEAN			
			13		NA		BOOLEAN			
			14		NA		BOOLEAN			
			15		NA		BOOLEAN			
40231	**E6**	**230**		**RO**	**Input Alarm/Status Register 2**	**1**				
			0		Current Maximum alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Current Minimum alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		Current High alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		Current Low alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			4		Current Maximum alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			5		Current Minimum alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			6		Current High alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			7		Current Low alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			8		Current Maximum alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			9		Current Minimum alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			10		Current High alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			11		Current Low alarm L3		BOOLEAN			
			12		NA		BOOLEAN			
			13		NA		BOOLEAN			
			14		NA		BOOLEAN			
			15		NA		BOOLEAN			
40232	**E7**	**231**		**RO**	**Input Alarm/Status Register 3**	**1**				
			0		Communication lost		BOOLEAN			0=Com OK 1 = Com Lost
			1		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			4		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			5		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			6		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			7		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			8		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			9		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			10		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			11		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active
			12		RESERVED		BOOLEAN			0 = No Alarm 1 = Alarm Active

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
			13		Input Breaker Status		BOOLEAN			0 = Closed 1 = Open
			14		Input Breaker Open Alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			15		NA		BOOLEAN			
40233	**E8**	**232**		**RO**	**Input Alarm Config Register 4**	**1**				
			0		Voltage Maximum alarm		BOOLEAN			1=Enable
			1		Voltage Minimum alarm		BOOLEAN			1=Enable
			2		Voltage High alarm		BOOLEAN			1=Enable
			3		Voltage Low alarm		BOOLEAN			1=Enable
			4		Current Maximum alarm		BOOLEAN			1=Enable
			5		Current Minimum alarm		BOOLEAN			1=Enable
			6		Current High alarm		BOOLEAN			1=Enable
			7		Current Low alarm		BOOLEAN			1=Enable
			8		RESERVED		BOOLEAN			1=Enable
			9		RESERVED		BOOLEAN			1=Enable
			10		RESERVED		BOOLEAN			1=Enable
			11		RESERVED		BOOLEAN			1=Enable
			12		Input Breaker Open Alarm Enable		BOOLEAN			1=Enable
			13		NA		BOOLEAN			
			14		NA		BOOLEAN			
			15		NA		BOOLEAN			
40234	E9	233		RO	RESERVED	4				
					Input Meter Data					
40238	ED	237		RO	Input Nominal Frequency	1	UINT16			
40239	EE	238		RO	Input Nominal Voltage	1	UINT16			
40240	EF	239			RESERVED	10				
					Input Meter Measurements					
40250	F9	249		RO	Frequency	1	UINT16		100	Hz
40251	FA	250		RO	Voltage L1-2	1	UINT16		100	Volts
40252	FB	251		RO	Voltage L2-3	1	UINT16		100	Volts
40253	FC	252		RO	Voltage L3-1	1	UINT16		100	Volts
40254	FD	253		RO	Voltage L-L Avg	1	UINT16		100	Volts
40255	FE	254		RO	RESERVED	1	UINT16			
40256	FF	255		RO	RESERVED	1	UINT16			
40257	100	256		RO	RESERVED	1	UINT16			
40258	101	257		RO	RESERVED	1	UINT16			
40259	102	258		RO	Current L1	1	UINT16		10	Amperes
40260	103	259		RO	Current L2	1	UINT16		10	Amperes
40261	104	260		RO	Current L3	1	UINT16		10	Amperes
40262	105	261		RO	RESERVED	1				
40263	106	262		RO	RESERVED	1				
40264	107	263		RO	Current Avg	1	UINT16		10	Amperes
40265	108	264		RO	RESERVED	1				
40266	109	265		RO	RESERVED	1				
40267	10A	266		RO	RESERVED	1				
40268	10B	267		RO	Active Power Total	1	UINT16		100 for 400/500 kVA configuration 10 for 1000 kVA configuration	kW
40269	10C	268		RO	RESERVED	1				
40270	10D	269		RO	RESERVED	1				
40271	10E	270		RO	RESERVED	1				
40272	10F	271		RO	Reactive Power Total	1	UINT16		100 for 400/500 kVA configuration 10 for 1000 kVA configuration	kVAR
40273	110	272		RO	RESERVED	1				
40274	111	273		RO	RESERVED	1				
40275	112	274		RO	RESERVED	1				
40276	113	275		RO	Apparent Power Total	1	UINT16		100 for 400/500 kVA configuration 10 for 1000 kVA configuration	kVA
40277	114	276		RO	RESERVED	1				
40278	115	277		RO	RESERVED	1				
40279	116	278		RO	RESERVED	1				
40280	117	279		RO	Power Factor Total	1	INT16		100	
40281	118	280		RO	RESERVED	1				
40282	119	281		RO	RESERVED	1				
40283	11A	282		RO	RESERVED	1				
40284	11B	283		RO	Displacement Power Factor Total	1	UINT16		100	0xFFFF = unsupported, Only applicable to PM5500
40285	11C	284		RO	Accumulated Energy Reset Date/Time	10	ASCII			character string, Only applicable to PM5500
40295	126	294		RO	Active Energy Delivered (Into Load)	2	INT32		10	kWh, Only applicable to PM5500
40297	128	296		RO	Active Energy Received (Out of Load)	2	INT32		10	0 = unsupported
40299	12A	298		RO	Active Energy Delivered + Received	2	INT32		10	0 = unsupported
40301	12C	300		RO	Active Energy Delivered- Received	2	INT32		10	0 = unsupported
40303	12E	302		RO	Reactive Energy Delivered	2	INT32		10	kVARh, Only applicable to PM5500

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
40305	130	304		RO	Reactive Energy Received	2	INT32		10	0 = unsupported
40307	132	306		RO	Reactive Energy Delivered + Received	2	INT32		10	0 = unsupported
40309	134	308		RO	Reactive Energy Delivered - Received	2	INT32		10	0 = unsupported
40311	136	310		RO	Apparent Energy Delivered	2	INT32		10	kVAh, Only applicable to PM5500
40313	138	312		RO	Apparent Energy Received	2	INT32		10	0 = unsupported
40315	13A	314		RO	Apparent Energy Delivered + Received	2	INT32		10	0 = unsupported
40317	13C	316		RO	Apparent Energy Delivered - Received	2	INT32		10	0 = unsupported
40319	13E	318			RESERVED	150				
40465	**1D0**	**464**		**RO**	**Output Alarm/Status Register 1**	**1**				
			0		Voltage Maximum alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Voltage Minimum alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		Voltage High alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		Voltage Low alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			4		Voltage Maximum alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			5		Voltage Minimum alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			6		Voltage High alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			7		Voltage Low alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			8		Voltage Maximum alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			9		Voltage Minimum alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			10		Voltage High alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			11		Voltage Low alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			12		NA		BOOLEAN			
			13		NA		BOOLEAN			
			14		NA		BOOLEAN			
			15		NA		BOOLEAN			
40466	**1D1**	**465**		**RO**	**Output Alarm/Status Register 2**	**1**				
			0		Current Maximum alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Current Minimum alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		Current High alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		Current Low alarm L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			4		Current Maximum alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			5		Current Minimum alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			6		Current High alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			7		Current Low alarm L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			8		Current Maximum alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			9		Current Minimum alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			10		Current High alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			11		Current Low alarm L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			12		NA		BOOLEAN			
			13		NA		BOOLEAN			
			14		NA		BOOLEAN			
			15		NA		BOOLEAN			
40467	**1D2**	**466**		**RO**	**Output Alarm/Status Register 3**	**1**				
			0		Communication lost		BOOLEAN			0=Com OK 1=Com Lost
			1		Over KW - L1		BOOLEAN			0 = No Alarm 1 = Alarm Active

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
			2		Over KW - L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		Over KW - L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			4		Over kVA - L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			5		Over kVA - L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			6		Over kVA - L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			7		Under kVA - L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			8		Under kVA - L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			9		Under kVA - L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			10		PF Deviation - L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			11		PF Deviation - L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			12		PF Deviation -L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			13		Frequency deviation		BOOLEAN			0 = No Alarm 1 = Alarm Active
			14		Output Breaker Open Alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			15		Output breaker status		BOOLEAN			0 = Closed 1 = Open
40468	**1D3**	**467**		**RO**	**Output Alarm/Status Register 4**	**1**				
			0		Phase Loss - L1		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Phase Loss - L2		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		Phase Loss - L3		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		NA		BOOLEAN			
			4		NA		BOOLEAN			
			5		NA		BOOLEAN			
			6		NA		BOOLEAN			
			7		NA		BOOLEAN			
			8		NA		BOOLEAN			
			9		NA		BOOLEAN			
			10		NA		BOOLEAN			
			11		NA		BOOLEAN			
			12		NA		BOOLEAN			
			13		NA		BOOLEAN			
			14		NA		BOOLEAN			
			15		NA		BOOLEAN			
40469	**1D4**	**468**		**RO**	**Output Alarm Config Register 5**	**1**				
			0		Voltage Maximum alarm		BOOLEAN			1=Enable
			1		Voltage Minimum alarm		BOOLEAN			1=Enable
			2		Voltage High alarm		BOOLEAN			1=Enable
			3		Voltage Low alarm		BOOLEAN			1=Enable
			4		Current Maximum alarm		BOOLEAN			1=Enable
			5		Current Minimum alarm		BOOLEAN			1=Enable
			6		Current High alarm		BOOLEAN			1=Enable
			7		Current Low alarm		BOOLEAN			1=Enable
			8		Over KW		BOOLEAN			1=Enable
			9		Over kVA		BOOLEAN			1=Enable
			10		Under kVA		BOOLEAN			1=Enable
			11		PF Deviation		BOOLEAN			1=Enable
			12		Output Breaker Open Alarm Enable		BOOLEAN			1=Enable
			13		Phase Loss		BOOLEAN			1=Enable
			14		Frequency Deviation		BOOLEAN			1=Enable
			15		NA		BOOLEAN			
40470	1D5	469		RO	RESERVED	4				
					Output Meter Data					
40474	1D9	473		RO	Output Nominal Frequency	1	UINT16			
40475	1DA	474		RO	Output Nominal Voltage	1	UINT16			
40476	1DB	475		RO	Nominal kVA Rating	1	UINT16			
40477	1DC	476		RO	Output Nominal P2P Voltage	1	UINT16			
40478	1DD	477		RO	RESERVED	8	UINT16			

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
					Output Meter Measurements					
40486	1.00E+05	485		RO	Frequency	1	UINT16		100	Hz
40487	1.00E+06	486		RO	Voltage L1-2	1	UINT16		100	Volts
40488	1.00E+07	487		RO	Voltage L2-3	1	UINT16		100	Volts
40489	1.00E+08	488		RO	Voltage L3-1	1	UINT16		100	Volts
40490	1.00E+09	489		RO	Voltage L-L Avg	1	UINT16		100	Volts
40491	1EA	490		RO	Voltage L1-N	1	UINT16		100	Volts
40492	1EB	491		RO	Voltage L2-N	1	UINT16		100	Volts
40493	1EC	492		RO	Voltage L3-N	1	UINT16		100	Volts
40494	1ED	493		RO	Voltage L-N Avg	1	UINT16		100	Volts
40495	1EE	494		RO	Current L1	1	UINT16		10	Amperes
40496	1EF	495		RO	Current L2	1	UINT16		10	Amperes
40497	1F0	496		RO	Current L3	1	UINT16		10	Amperes
40498	1F1	497		RO	RESERVED	1				
40499	1F2	498		RO	RESERVED	1				
40500	1F3	499		RO	Current Avg	1	UINT16		10	Amperes
40501	1F4	500		RO	Active Power L1	1	UINT16		100	kW
40502	1F5	501		RO	Active Power L2	1	UINT16		100	kW
40503	1F6	502		RO	Active Power L3	1	UINT16		100	kW
40504	1F7	503		RO	Active Power Total	1	UINT16		100 for 400/500 kVA configuration 10 for 1000 kVA configuration	kW
40505	1F8	504		RO	Reactive Power L1	1	UINT16		100	kVAR
40506	1F9	505		RO	Reactive Power L2	1	UINT16		100	kVAR
40507	1FA	506		RO	Reactive Power L3	1	UINT16		100	kVAR
40508	1FB	507		RO	Reactive Power Total	1	UINT16		100 for 400/500 kVA configuration 10 for 1000 kVA configuration	kVAR
40509	1FC	508		RO	Apparent Power L1	1	UINT16		100	kVA
40510	1FD	509		RO	Apparent Power L2	1	UINT16		100	kVA
40511	1FE	510		RO	Apparent Power L3	1	UINT16		100	kVA
40512	1FF	511		RO	Apparent Power Total	1	UINT16		100 for 400/500 kVA configuration 10 for 1000 kVA configuration	kVA
40513	200	512		RO	Power Factor L1	1	INT16		100	
40514	201	513		RO	Power Factor L2	1	INT16		100	
40515	202	514		RO	Power Factor L3	1	INT16		100	
40516	203	515		RO	Power Factor Total	1	INT16		100	
40517	204	516		RO	Displacement Power Factor A	1	UINT16		100	0xFFFF = unsupported, Only applicable to PM5500, PM8000 and HDPM6000
40518	205	517		RO	Displacement Power Factor B	1	UINT16		100	0xFFFF = unsupported, Only applicable to PM5500, PM8000 and HDPM6000
40519	206	518		RO	Displacement Power Factor C	1	UINT16		100	0xFFFF = unsupported, Only applicable to PM5500, PM8000 and HDPM6000
40520	207	519		RO	Displacement Power Factor Total	1	UINT16		100	0xFFFF = unsupported, Only applicable to PM5500 and PM8000
40521	208	520		RO	Accumulated Energy Reset Date/Time	10	ASCII			character string, Only applicable to PM5500 Not appllicable to PM8000
40531	212	530		RO	Active Energy Delivered (Into Load)	2	INT32		10	kWh, Only applicable to PM5500, PM8000 and HDPM6000
40533	214	532		RO	Active Energy Received (Out of Load)	2	INT32		10	0 = unsupported
40535	216	534		RO	Active Energy Delivered + Received	2	INT32		10	0 = unsupported
40537	218	536		RO	Active Energy Delivered- Received	2	INT32		10	0 = unsupported
40539	21A	538		RO	Reactive Energy Delivered	2	INT32		10	kVARh, Only applicable to PM5500, PM8000 and HDPM6000
40541	21C	540		RO	Reactive Energy Received	2	INT32		10	0 = unsupported
40543	21E	542		RO	Reactive Energy Delivered + Received	2	INT32		10	0 = unsupported
40545	220	544		RO	Reactive Energy Delivered - Received	2	INT32		10	0 = unsupported
40547	222	546		RO	Apparent Energy Delivered	2	INT32		10	kVAh, Only applicable to PM5500, PM8000 and HDPM6000
40549	224	548		RO	Apparent Energy Received	2	INT32		10	0 = unsupported
40551	226	550		RO	Apparent Energy Delivered + Received	2	INT32		10	0 = unsupported
40553	228	552		RO	Apparent Energy Delivered - Received	2	INT32		10	0 = unsupported
40555	22A	554			RESERVED	446				
					Branch Configuration (#1 to #42)					
43001	A7F9	3000		RO	Breaker Position (#1 to #42)	210	ASCII			character string Eg: TOP1, BOTTOM2 nosupport = if meter unsupported
43211	A8CB	3210		RO	Load Identifier (#1 to #42)	420	ASCII			character string Eg: AC Line, nosupport = if meter unsupported
43631	AA6F	3630		RO	Associated Phase (#1 to #42)	42	UINT16			0=unknown, 1 = L1, 2 = L2, 3 = L3 0xFFFF = unsupported
43673	AA99	3672		RO	Breaker Rating (#1 to #42)	42	UINT16			Amperes, 0 = unknown 0xFFFF = unsupported

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
43715	AAC3	3714		RO	CT Size (#1 to #42)	42	UINT16			Amperes, 0 = unknown 0xFFFF = unsupported
43757	AAED	3756			RESERVED	350				
					Branch Measurements (#1 to #42)					
44107	AC4B	4106		RO	Active Power (#1 to #42)	42	UINT16		100, 10 if HDPM6000	kW, 0xFFFF = unsupported
44149	AC75	4148		RO	Apparent Power (#1 to #42)	42	UINT16		100, 10 if HDPM6000	kVA, 0xFFFF = unsupported
44191	AC9F	4190		RO	Energy Usage (#1 to #42)	42	UINT16		10	kWh, 0xFFFF = unsupported, Recommend to use register 44737
44233	ACC9	4232		RO	Power Factor (#1 to #42)	42	INT16		100, 10 if HDPM6000	0xFFFF = unsupported
44275	ACF3	4274		RO	Current (#1 to #42)	42	UINT16		10	Amperes, 0xFFFF = unsupported
44317	AD1D	4316		RO	Energy Usage Reset Date(#1 to #42)	420	ASCII			character string, nosupport = if MCM unsupported
44737	AEC1	4736		RO	High Precision Energy Usage (#1 to #42)	84	UINT32		10	kWh, 0 = if not available
44821	AF15	4820		RO	RESERVED	180				
45001	**AFC9**	**5000**		**RO**	**Branch Alarm Register 1 (#1 to #42)**	**42**				
			0		Current Maximum alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Current Minimum alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		Current High alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			3		Current Low alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			4		NA		BOOLEAN			
			5		NA		BOOLEAN			
			6		NA		BOOLEAN			
			7		NA		BOOLEAN			
			8		NA		BOOLEAN			
			9		NA		BOOLEAN			
			10		NA		BOOLEAN			
			11		NA		BOOLEAN			
			12		NA		BOOLEAN			
			13		NA		BOOLEAN			
			14		NA		BOOLEAN			
			15		NA		BOOLEAN			
45043	**AFF3**	**5042**		**RO**	**Branch Alarm Register 2 (#1 to #42)**	**42**				
			0		Under kVA		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Over kVA		BOOLEAN			0 = No Alarm 1 = Alarm Active
			2		NA		BOOLEAN			
			3		NA		BOOLEAN			
			4		NA		BOOLEAN			
			5		NA		BOOLEAN			
			6		NA		BOOLEAN			
			7		NA		BOOLEAN			
			8		NA		BOOLEAN			
			9		NA		BOOLEAN			
			10		NA		BOOLEAN			
			11		NA		BOOLEAN			
			12		NA		BOOLEAN			
			13		NA		BOOLEAN			
			14		Branch Breaker Open Alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			15		Branch Breaker Status		BOOLEAN			0 = Closed 1 = Open
45085	**B01D**	**5084**		**RO**	**Branch Alarm Configuration Register (Breaker #1 to #42)**	**42**				
			0		Current Maximum alarm Enable		BOOLEAN			1=Enable
			1		Current Minimum alarm Enable		BOOLEAN			1=Enable
			2		Current Low alarm Enable		BOOLEAN			1=Enable
			3		Current High alarm Enable		BOOLEAN			1=Enable
			4		Under kVA Enable		BOOLEAN			1=Enable
			5		Over kVA Enable		BOOLEAN			1=Enable
			6		NA		BOOLEAN			1=Enable
			7		NA		BOOLEAN			
			8		NA		BOOLEAN			
			9		NA		BOOLEAN			
			10		NA		BOOLEAN			

								Scale		
Modicon Standard Register Number	**Absolute Starting Register Address, (Hexa-decimal)**	**Absolute Starting Register Address, (Decimal)**	**Bit**	**Access (RO/RW)**	**Data Point**	**Length # registers**	**Data Type**	**Multiply Reading By:**	**Divide Reading By:**	**Valid Response**
			11		NA		BOOLEAN			
			12		NA		BOOLEAN			
			13		Alarm Generation Enable/Disable		BOOLEAN			1=Enable
			14		Branch Breaker Open Alarm Enable/Disable		BOOLEAN			1=Enable
			15		NA		BOOLEAN			
45127	B047	5126		RO	RESERVED	874	NA			
46001	**B3B1**	**6000**		**RO**	**General alarm**	**1**				
			0		EPO Alarm		BOOLEAN			0 = No Alarm 1 = Alarm Active
			1		Branch Communication Lost		BOOLEAN			0=Com OK 1=Com Lost
			2		Transformer High Temperature		BOOLEAN			0=Normal 1=Alarm
			3		Transient Voltage Surge Suppressor		BOOLEAN			0=Normal 1=Alarm
			4		Breaker Trip Alarm		BOOLEAN			0=Normal 1=Alarm
			5		RESERVED		BOOLEAN			
			6		RESERVED		BOOLEAN			
			7		RESERVED		BOOLEAN			
			8		RESERVED		BOOLEAN			
			9		RESERVED		BOOLEAN			
			10		RESERVED		BOOLEAN			
			11		RESERVED		BOOLEAN			
			12		RESERVED		BOOLEAN			
			13		RESERVED		BOOLEAN			
			14		RESERVED		BOOLEAN			
			15		RESERVED		BOOLEAN			

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