

Modbus Register Map for Power Xpert Meter 4000/6000/8000



PXM468K

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MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000

Modbus Communication

Modbus Register Mapping

The Power Xpert Meter platform supports many standard buffers; however, it has extended functionality such that complete new sets of registers are required.

Register 2001 (Invalid Object Access Configuration)

Register number 2001 is used to configure the product to respond to a group of data objects, of which some objects are invalid within that group.

When set to zero (default), the product will respond to a group of objects with data contained in the valid objects of the group along with 0000_{16} data contained in the invalid objects (or an invalid number, if available: for example floating point value NaN = $7FF20000_{16}$). This allows access to a block of registers using a single read command, of which some are not implemented in that block, rather than multiple read commands, which contain only implemented registers. The application is thus responsible for selecting the implemented registers. The starting register number must be a valid object. If the starting register number accesses an invalid object, the illegal data object exception code 02 will be issued, regardless of this configuration setting.

When set to non zero, any attempt to access a group of data objects, which contain an invalid object will result in an illegal data object exception code 02.

Register 2002 (Floating-Point Data Register Configuration)

Register number 2002 is used to configure the 32 bit IEEE floating point word order.

When set to zero (default), the floating point high-order 16 bit word is placed first in the Modbus register (x) followed by the low order 16 bit word in the next Modbus register space (x+1). The resulting transmission order is 3rd byte, 2nd byte, 1st byte and lastly 0th byte, with bit 24 transmitted first.

When non zero, the floating-point low order 16 bit word is first in the Modbus register space.

Register 2003 (Fixed-Point Data Multi-Register Configuration)

Register number 2003 is used to configure the 32 bit and 64 bit fixed point word order (including the 64 bit extended energy objects).

When set to zero (default), the fixed point multi-register high order 16 bit word is placed first in the Modbus register (x) followed by the next lower order 16 bit word in the next Modbus register space (x+1) and so forth. For 32 bit objects the resulting transmission order is 3rd byte, 2nd byte, 1st byte and lastly 0th byte, with bit 24 transmitted first. For 64 bit objects the resulting transmission order is 7th byte, 6th byte, 5th byte, 4th byte, 3rd byte, 2nd byte, 1st byte and lastly 0th byte, with bit 56 transmitted first.

When non zero, the fixed-point low order 16 bit word is first in the Modbus register space.

Register 2901 (Controls – Modbus RTU)

BYTE2	BYTE1	BYTE0	Standard Control Definitions (BYTE3=0)
0	0	4	Reset peak demand (kW, kvar, kVA, Amps)
0	0	10H	Reset device software (reboot)
0	0	40H	Reset (synchronize) demand windows
0	1	4	Reset all min/max values
0	1	6	Reset discrete input counters
3	0	1	Capture waveform
3	0	3	Reset Com Port statistics
3	0	4	Acknowledge triggered events (clear unread events flag from status)
4	1	X	Activate relay output #X (0-2) for relays 1-3, respectively
4	2	X	De-activate relay output #X (0-2) for relays 1-3, respectively

Register 2921 (Time/Date)

The present device time can be read from these registers. A new time can be written to these registers and becomes an active clock. This is intended to represent the local time; however, if the zone offset is zero, the net effect is UTC (GMT).

Definition	Register Number(decimal)	Data Range(decimal)
Month	2921	1 - 12
Day	2922	1 - 31
Year	2923	00-99
Day Of Week	2924	1=Sunday...7=Saturday
Hour	2925	0 – 23
Minute	2926	0 – 59
Second	2927	0 – 59
1/100 th Second	2928	0 – 99

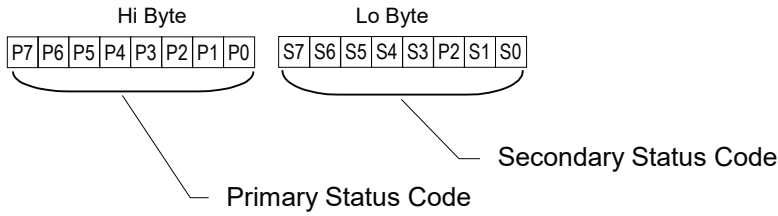
Register 4607, 4719 (duplicate addr) (ProductID) {0x0000200B}

Where:

D5-D0=>Division Code=8; V3-V0 =>ComVersion=0; P5-P0 =>Product ID=11 (0xB)

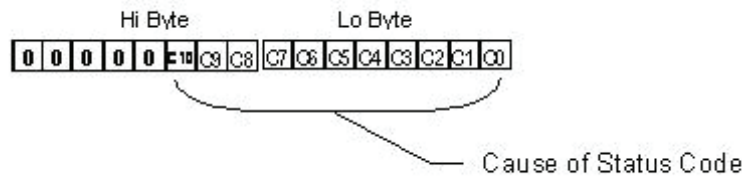
126E		126F	
Bits 31.....24	Bits 23.....16	Bits 15.....8	Bits 7.....0
xxxxxxx	xxxxxxx	P5 P4 P3 P2 P1 P0 V3 V2	V1 V0 D5 D4 D3 D2 D1 D0

Register 4609 (Product Status)



Primary Status Code	Primary Status Definition	Secondary Status Code	Secondary Status Definition
4	Alarmed	1	Not applicable
9	Operational	7	Powered up

Register 4610 (Cause of Status) [Standard]



Code	Reason for Status Definition	Code	Reason for Status Definition
0	Unknown	29	Current Demand
1	Normal operating mode	30	Total Harmonic Distortion
2	Discrete Input #1	42	Multiple causes
11	Over Voltage	65	Reverse Power
12	Under Voltage	81	Discrete Input #2
15	Under Frequency	83	Discrete Input #3
16	Over Frequency	86	Discrete Input #4
19	Apparent Power Factor	87	Discrete Input #5
20	Displacement Power Factor	88	Discrete Input #6
23	Watt	89	Discrete Input #7
24	VA	90	Discrete Input #8
25	Var	117	Voltage Sag / Semi F47
26	Power Demand	118	Voltage Swell
27	VA Demand	129	Manual Event / Modbus
28	Var Demand	142	Voltage Transient

Registers 4611-6332 (Real-Time Measured Values)

See **Table 1** for detailed listing.

Register 11000+ (Real-Time and Historic Meter Data)

See **Tables 2-11**.

Types of Data

FLOATING-POINT (IEEE-754)

Power Xpert Meter makes extensive use of the IEEE-754 floating-point format for real-time and historic data. The standard representation requires a 32-bit word. The first bit is the sign bit, S, the next eight bits are the exponent bits, E, and the final 23 bits are the fraction F:

S EEEEEEEEE FFFFFFFFFFFFFFFFFFFFFFFF

The value represented by the word may be determined as follows:

- If E=255 and F is nonzero, then V=NaN (“Not a number”)
- If E=255 and F is zero and S is 1, then V=-Infinity
- If E=255 and F is zero and S is 0, then V=Infinity
- If 0<E<255 then $V=(-1)^S * 2^{(E-127)} * (1.F)$ where 1.F is intended to represent the binary number created by prefixing F with an implicit leading 1 and a binary point.
- If E=0 and F is nonzero, then $V=(-1)^S * 2^{(-126)} * (0.F)$. [un-normalized value]

ENERGY FORMAT (64-BIT)

Energy registers are represented in a 64 bit format where the high order 16 bit register is always a fixed scale of 0300. This high order register is not subject to configuration changes and can be ignored. The Low order 48 bits represent an integer KWH reading. The Lower 32 bits of the KWH reading can be read independently as a 32 bit swapped long integer number.

Forward, Reverse and Sum/Total energies are stored as unsigned integers. These Low order 32 bit swapped long integers have a range of 0 - 4.2 billion KWH.

Net Energy readings are stored as signed 32 bit swapped long integers. These low order 32 bit swapped long integers have a range of +/- 2.1 billion KWH.

LIST OF TRIGGER EVENTS

Starting at Register 18620 is a list of the 20 most recent triggered events.

32-bit EventID

Timestamp UTC/GMT)

Cause (see Register 4610 for definitions)

Param 1, Param 2, IEEE floating-point values that are related to the event-if applicable.)

EVENT LOG

Starting at Register 29000 is a list of the 20 most recent logs.

EventID (32 bit)

Timestamp (UTC/GMT)

Number of ASCII characters in logged description (16 bit)

Logged Description (ASCII string of up to 150 characters)

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000

1. Standard Modbus Register Map

Modbus Register	Hex Modbus Register	Description	Type/d	Units	Register Count
2001	07D0	Invalid Object Access setting	Uint16	Encoded	1
2002	07D1	Floating-Point Word Order setting	Uint16	Encoded	1
2003	07D2	Fixed-Point Word Order setting	Uint16	Encoded	1
2004	07D3	Subnetwork Routing Mode (see chapter 2 for description of mode settings)	Uint16	Encoded	1
2005	07D4	Subnetwork Timeout Milliseconds	Uint16	ms	1
2006	07D5	Subnetwork Retry Count	Uint16	Encoded	1
2901	0B54	Slave Action	Uint16	Encoded	3
2921	0B68	Time (MM/DD/YY day HH:MM:SS 100th)	Uint16	Misc	8
4607	11FE	Product ID (constant, initially 0x2C08)	Uint32		2
4609	1200	Primary/Secondary Status	Uint16	Encoded	1
4610	1201	Cause-Of-Status	Uint16	Encoded	1
4611	1202	IA	Float	Amps	2
4613	1204	IB	Float	Amps	2
4615	1206	IC	Float	Amps	2
4617	1208	IG	Float	Amps	2
4619	120A	IN	Float	Amps	2
4621	120C	Iavg	Float	Amps	2
4623	120E	VAB	Float	Volts	2
4625	1210	VBC	Float	Volts	2
4627	1212	VCA	Float	Volts	2
4629	1214	VLLavg	Float	Volts	2
4631	1216	VAN	Float	Volts	2
4633	1218	VBN	Float	Volts	2
4635	121A	VCN	Float	Volts	2
4637	121C	VLNavg	Float	Volts	2
4639	121E	VNG	Float	Volts	2
4651	122A	Real Power (Watts)	Float	Watts	2
4653	122C	Reactive Power (VAR)	Float	VAR	2
4655	122E	Apparent Power (VA)	Float	VA	2
4657	1230	PFd [Displacement Power Factor]	Float		2
4659	1232	PFa [Apparent\True Power Factor]	Float		2

Modbus Register	Hex Modbus Register	Description	Type/d	Units	Register Count
4661	1234	Frequency	Float	Hz	2
4663	1236	K-factor (not supported in PXM 4000 prior to firmware 12.x.x)	Float		2
4665	1238	Transformer Harmonic Derating Factor (sqrt2/Crest-Factor)	Float		2
4667	123A	Phase A Watts	Float	Watts	2
4669	123C	Phase B Watts	Float	Watts	2
4671	123E	Phase C Watts	Float	Watts	2
4673	1240	Phase A VAr	Float	VAr	2
4675	1242	Phase B VAr	Float	VAr	2
4677	1244	Phase C VAr	Float	VAr	2
4679	1246	Phase A VA	Float	VA	2
4681	1248	Phase B VA	Float	VA	2
4683	124A	Phase C VA	Float	VA	2
4685	124C	Phase A PFd [Displacement Power Factor]	Float		2
4687	124E	Phase B PFd	Float		2
4689	1250	Phase C PFd	Float		2
4691	1252	Phase A PFa [Apparent\True Power Factor]	Float		2
4693	1254	Phase B PFa	Float		2
4695	1256	Phase C PFa	Float		2
4699	125A	Source1 VAB (AUX)	Float	Volts	2
4701	125C	Source1 VBC (AUX)	Float	Volts	2
4703	125E	Source1 VCA (AUX)	Float	Volts	2
4705	1260	Freq (same as 4661)	Float	Hz	2
4719	126E	ProductID (same as 4607)	Uint32		2
4819	12D2	Phase A Direct (V)	Float	Volts	2
4821	12D4	Phase A Quadrature (V)	Float	Volts	2
4823	12D6	Phase B Direct (V)	Float	Volts	2
4825	12D8	Phase B Quadrature (V)	Float	Volts	2
4827	12DA	Phase C Direct (V)	Float	Volts	2
4829	12DC	Phase C Quadrature (V)	Float	Volts	2
4831	12DE	Positive Sequence Direct (V) (not supported in PXM 4000)	Float	Volts	2
4833	12E0	Positive Sequence Quadrature (V) (not supported in PXM 4000)	Float	Volts	2
6305	18A0	Forward Wh	Energy	Wh	4
6309	18A4	Reverse Wh	Energy	Wh	4
6313	18A8	Sum Total Wh	Energy	Wh	4

Modbus Register	Hex Modbus Register	Description	Type/d	Units	Register Count
6317	18AC	Delivered/Leading Varh	Energy	VARh	4
6321	18B0	Received/Lagging Varh	Energy	VARh	4
6325	18B4	Net Varh	Energy	VARh	4
6329	18B8	Vah	Energy	Vah	4

2. Extended Modbus Register Map

Modbus Register	Hex Modbus Register	Description	Type/d	Units	Register Count	
10000	270F	Firmware (only available for meters running firmware version 13.4.0.2)	Firmware Version Info	Char	String	30
11000	2AF7	Miscellaneous	EventCount	Uint32	EventCount	2
11002	2AF9		NinesOfAvailability\Performance	Float	Percentage	2
11004	2AFB		SystemFrequency	Float	Hertz	2
11006	2AFD	Current	Ig200 [200ms rms current]	Float	Amps	2
11008	2AFF		In200	Float	Amps	2
11010	2B01		Ia200	Float	Amps	2
11012	2B03		Ib200	Float	Amps	2
11014	2B05		Ic200	Float	Amps	2
11016	2B07		Iavg200	Float	Amps	2
11018	2B09	Voltage	VInavg200 [200ms rms voltage]	Float	Volts	2
11020	2B0B		Vng200	Float	Volts	2
11022	2B0D		VllavgAUX_200	Float	Volts	2
11024	2B0F		VabAUX_200	Float	Volts	2
11026	2B11		VbcAUX_200	Float	Volts	2
11028	2B13		VcaAUX_200	Float	Volts	2
11030	2B15		Van200	Float	Volts	2
11032	2B17		Vab200	Float	Volts	2
11034	2B19		Vbn200	Float	Volts	2
11036	2B1B		Vbc200	Float	Volts	2
11038	2B1D		Vcn200	Float	Volts	2
11040	2B1F		Vca200	Float	Volts	2
11042	2B21		Vllavg200	Float	Volts	2
11044	2B23	Apparent\True PowerFactor	PhaseA	Float		2

MODBUS REGISTER MAP FOR POWER XPRT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			Type/d	Units	Register Count
11046	2B25		PhaseB	Float		2
11048	2B27		PhaseC	Float		2
11050	2B29		System	Float		2
11052	2B2B	RealForwardEnergy	RateA	Energy	kWh	4
11056	2B2F		RateB	Energy	kWh	4
11060	2B33		RateC	Energy	kWh	4
11064	2B37		RateD	Energy	kWh	4
11068	2B3B		RTP	Energy	kWh	4
11072	2B3F		Total	Energy	kWh	4
11076	2B43	RealReverseEnergy	RateA	Energy	kWh	4
11080	2B47		RateB	Energy	kWh	4
11084	2B4B		RateC	Energy	kWh	4
11088	2B4F		RateD	Energy	kWh	4
11092	2B53		RTP	Energy	kWh	4
11096	2B57		Total	Energy	kWh	4
11100	2B5B	RealNetEnergy	RateA	Energy	kWh	4
11104	2B5F		RateB	Energy	kWh	4
11108	2B63		RateC	Energy	kWh	4
11112	2B67		RateD	Energy	kWh	4
11116	2B6B		RTP	Energy	kWh	4
11120	2B6F		Total	Energy	kWh	4
11124	2B73	RealTotalEnergy	RateA	Energy	kWh	4
11128	2B77		RateB	Energy	kWh	4
11132	2B7B		RateC	Energy	kWh	4
11136	2B7F		RateD	Energy	kWh	4
11140	2B83		RTP	Energy	kWh	4
11144	2B87		Total	Energy	kWh	4
11148	2B8B	ApparentEnergy (kVAh)	RateA	Energy	kVAh	4
11152	2B8F		RateB	Energy	kVAh	4
11156	2B93		RateC	Energy	kVAh	4
11160	2B97		RateD	Energy	kVAh	4
11164	2B9B		RTP	Energy	kVAh	4
11168	2B9F		Total	Energy	kVAh	4
11172	2BA3	ReactiveDeliveredEnergy	RateA	Energy	kVArh	4
11176	2BA7		RateB	Energy	kVArh	4
11180	2BAB		RateC	Energy	kVArh	4
11184	2BAF		RateD	Energy	kVArh	4
11188	2BB3		RTP	Energy	kVArh	4
11192	2BB7		Total	Energy	kVArh	4
11196	2BBB	ReactiveReceivedEnergy	RateA	Energy	kVArh	4

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
11200	2BBF		RateB	Energy	kVArh	4
11204	2BC3		RateC	Energy	kVArh	4
11208	2BC7		RateD	Energy	kVArh	4
11212	2BCB		RTP	Energy	kVArh	4
11216	2BCF		Total	Energy	kVArh	4
11220	2BD3	ReactiveNetEnergy	RateA	Energy	kVArh	4
11224	2BD7		RateB	Energy	kVArh	4
11228	2BDB		RateC	Energy	kVArh	4
11232	2BDF		RateD	Energy	kVArh	4
11236	2BE3		RTP	Energy	kVArh	4
11240	2BE7		Total	Energy	kVArh	4
11244	2BEB	ReactiveTotalEnergy	RateA	Energy	kVArh	4
11248	2BEF		RateB	Energy	kVArh	4
11252	2BF3		RateC	Energy	kVArh	4
11256	2BF7		RateD	Energy	kVArh	4
11260	2BFB		RTP	Energy	kVArh	4
11264	2BFF		Total	Energy	kVArh	4
11268	2C03	CrestFactor	PhaseA	Float		2
11270	2C05		PhaseB	Float		2
11272	2C07		PhaseC	Float		2
11274	2C09		SystemMaximum	Float		2
11276	2C0B	ITIC Factor	PhaseA	Float		2
11278	2C0D		PhaseB	Float		2
11280	2C0F		PhaseC	Float		2
11282	2C11		SystemMinimum	Float		2
11284	2C13	FlickerPerceptibility (not supported in PXM 4000)	PhaseAtoNeutral	Float		2
11286	2C15	(not supported in PXM 4000)	PhaseAtoPhaseB	Float		2
11288	2C17	(not supported in PXM 4000)	PhaseBtoNeutral	Float		2
11290	2C19	(not supported in PXM 4000)	PhaseBtoPhaseC	Float		2
11292	2C1B	(not supported in PXM 4000)	PhaseCtoNeutral	Float		2
11294	2C1D	(not supported in PXM 4000)	PhaseCtoPhaseA	Float		2
11296	2C1F	ShortTermFlickerPerceptibility (not supported in PXM 4000)	PhaseAtoNeutral	Float		2
11298	2C21	(not supported in PXM 4000)	PhaseAtoPhaseB	Float		2
11300	2C23	(not supported in PXM 4000)	PhaseBtoNeutral	Float		2
11302	2C25	(not supported in PXM 4000)	PhaseBtoPhaseC	Float		2
11304	2C27	(not supported in PXM 4000)	PhaseCtoNeutral	Float		2
11306	2C29	(not supported in PXM 4000)	PhaseCtoPhaseA	Float		2
11308	2C2B	K-Factor	PhaseA	Float		2

Modbus Register	Hex Modbus Register			Type/d	Units	Register Count
11310	2C2D		PhaseB	Float		2
11312	2C2F		PhaseC	Float		2
11314	2C31		SystemMaximum	Float		2
11316	2C33	EvenHarmonic DistortionMagnitude (not supported in PXM 4000)	NeutralCurrent	Float	Amps	2
11318	2C35	(not supported in PXM 4000)	AUX PhaseAtoBVoltage	Float	Volts	2
11320	2C37	(not supported in PXM 4000)	AUX PhaseBtoCVoltage	Float	Volts	2
11322	2C39	(not supported in PXM 4000)	AUX PhaseCtoAVoltage	Float	Volts	2
11324	2C3B	(not supported in PXM 4000)	PhaseACurrent	Float	Amps	2
11326	2C3D	(not supported in PXM 4000)	PhaseAtoBVoltage	Float	Volts	2
11328	2C3F	(not supported in PXM 4000)	PhaseAtoNeutralVoltage	Float	Volts	2
11330	2C41	(not supported in PXM 4000)	PhaseBCurrent	Float	Amps	2
11332	2C43	(not supported in PXM 4000)	PhaseBtoCVoltage	Float	Volts	2
11334	2C45	(not supported in PXM 4000)	PhaseBtoNeutralVoltage	Float	Volts	2
11336	2C47	(not supported in PXM 4000)	PhaseCCurrent	Float	Amps	2
11338	2C49	(not supported in PXM 4000)	PhaseCtoAVoltage	Float	Volts	2
11340	2C4B	(not supported in PXM 4000)	PhaseCtoNeutralVoltage	Float	Volts	2
11342	2C4D	OddHarmonic DistortionMagnitude (not supported in PXM 4000)	NeutralCurrent	Float	Amps	2
11344	2C4F	(not supported in PXM 4000)	AUX PhaseAtoBVoltage	Float	Volts	2
11346	2C51	(not supported in PXM 4000)	AUX PhaseBtoCVoltage	Float	Volts	2
11348	2C53	(not supported in PXM 4000)	AUX PhaseCtoAVoltage	Float	Volts	2
11350	2C55	(not supported in PXM 4000)	PhaseACurrent	Float	Amps	2
11352	2C57	(not supported in PXM 4000)	PhaseAtoBVoltage	Float	Volts	2
11354	2C59	(not supported in PXM 4000)	PhaseAtoNeutralVoltage	Float	Volts	2
11356	2C5B	(not supported in PXM 4000)	PhaseBCurrent	Float	Amps	2
11358	2C5D	(not supported in PXM 4000)	PhaseBtoCVoltage	Float	Volts	2
11360	2C5F	(not supported in PXM 4000)	PhaseBtoNeutralVoltage	Float	Volts	2
11362	2C61	(not supported in PXM 4000)	PhaseCCurrent	Float	Amps	2
11364	2C63	(not supported in PXM 4000)	PhaseCtoAVoltage	Float	Volts	2
11366	2C65	(not supported in PXM 4000)	PhaseCtoNeutralVoltage	Float	Volts	2
11368	2C67	InterHarmonic DistortionMagnitude (not supported in PXM 4000)	NeutralCurrent	Float	Amps	2
11370	2C69	(not supported in PXM 4000)	AUX PhaseAtoBVoltage	Float	Volts	2
11372	2C6B	(not supported in PXM 4000)	AUX PhaseBtoCVoltage	Float	Volts	2
11374	2C6D	(not supported in PXM 4000)	AUX PhaseCtoAVoltage	Float	Volts	2
11376	2C6F	(not supported in PXM 4000)	PhaseACurrent	Float	Amps	2
11378	2C71	(not supported in PXM 4000)	PhaseAtoBVoltage	Float	Volts	2
11380	2C73	(not supported in PXM 4000)	PhaseAtoNeutralVoltage	Float	Volts	2
11382	2C75	(not supported in PXM 4000)	PhaseBCurrent	Float	Amps	2
11384	2C77	(not supported in PXM 4000)	PhaseBtoCVoltage	Float	Volts	2

Modbus Register	Hex Modbus Register			Type/d	Units	Register Count
11386	2C79	(not supported in PXM 4000)	PhaseBtoNeutralVoltage	Float	Volts	2
11388	2C7B	(not supported in PXM 4000)	PhaseCCurrent	Float	Amps	2
11390	2C7D	(not supported in PXM 4000)	PhaseCtoAVoltage	Float	Volts	2
11392	2C7F	(not supported in PXM 4000)	PhaseCtoNeutralVoltage	Float	Volts	2
11394	2C81	TotalHarmonic DistortionMagnitude	NeutralCurrent	Float	Amps	2
11396	2C83		AUX PhaseAtoBVoltage	Float	Volts	2
11398	2C85		AUX PhaseBtoCVoltage	Float	Volts	2
11400	2C87		AUX PhaseCtoAVoltage	Float	Volts	2
11402	2C89		PhaseACurrent	Float	Amps	2
11404	2C8B		PhaseAtoBVoltage	Float	Volts	2
11406	2C8D		PhaseAtoNeutralVoltage	Float	Volts	2
11408	2C8F		PhaseBCurrent	Float	Amps	2
11410	2C91		PhaseBtoCVoltage	Float	Volts	2
11412	2C93		PhaseBtoNeutralVoltage	Float	Volts	2
11414	2C95		PhaseCCurrent	Float	Amps	2
11416	2C97		PhaseCtoAVoltage	Float	Volts	2
11418	2C99		PhaseCtoNeutralVoltage	Float	Volts	2
11420	2C9B	DisplacementPowerFactor	DPFa	Float		2
11422	2C9D		DPFb	Float		2
11424	2C9F		DPFc	Float		2
11426	2CA1		DPFsys	Float		2
11428	2CA3	Apparent Power	Sa	Float	kVA	2
11430	2CA5		Sb	Float	kVA	2
11432	2CA7		Sc	Float	kVA	2
11434	2CA9		Stotal	Float	kVA	2
11436	2CAB	Reactive Power	Qa	Float	kvar	2
11438	2CAD		Qb	Float	kvar	2
11440	2CAF		Qc	Float	kvar	2
11442	2CB1		Qsys	Float	kvar	2
11444	2CB3	Real Power	Pa	Float	kW	2
11446	2CB5		Pb	Float	kW	2
11448	2CB7		Pc	Float	kW	2
11450	2CB9		Ptotal	Float	kW	2
11452	2CBB	CurrentPhaseAngle	Neutral	Float	Degrees	2
11454	2CBD		PhaseA	Float	Degrees	2
11456	2CBF		PhaseB	Float	Degrees	2
11458	2CC1		PhaseC	Float	Degrees	2
11460	2CC3	VoltagePhaseAngle	Van	Float	Degrees	2
11462	2CC5		Vbn	Float	Degrees	2
11464	2CC7		Vcn	Float	Degrees	2

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
11466	2CC9		Vab	Float	Degrees	2
11468	2CCB		Vbc	Float	Degrees	2
11470	2CCD		Vca	Float	Degrees	2
11472	2CCF	CurrentPhasor	PhasorIlg	Complex	Amps	4
11476	2CD3		PhasorIn	Complex	Amps	4
11480	2CD7		PhasorIa	Complex	Amps	4
11484	2CDB		PhasorIb	Complex	Amps	4
11488	2CDF		PhasorIc	Complex	Amps	4
11492	2CE3	VoltagePhasor	PhasorVan	Complex	Volts	4
11496	2CE7		PhasorVbn	Complex	Volts	4
11500	2CEB		PhasorVcn	Complex	Volts	4
11504	2CEF		PhasorVab	Complex	Volts	4
11508	2CF3		PhasorVbc	Complex	Volts	4
11512	2CF7		PhasorVca	Complex	Volts	4
11516	2CFB	Symmetric Current Component (not supported in PXM 4000)	PosSeqI	Complex	Amps	4
11520	2CFF	(not supported in PXM 4000)	NegSeqI	Complex	Amps	4
11524	2D03	(not supported in PXM 4000)	ZeroSeqI	Complex	Amps	4
11528	2D07	SymmetricAUX VoltageComponent (not supported in PXM 4000)	PosSeqVAUX	Complex	Volts	4
11532	2D0B	(not supported in PXM 4000)	NegSeqVAUX	Complex	Volts	4
11536	2D0F	(not supported in PXM 4000)	ZeroSeqVAUX	Complex	Volts	4
11540	2D13	SymmetricVoltage Component (not supported in PXM 4000)	PosSeqV	Complex	Volts	4
11544	2D17	(not supported in PXM 4000)	NegSeqV	Complex	Volts	4
11548	2D1B	(not supported in PXM 4000)	ZeroSeqV	Complex	Volts	4
	2D1F	LastMonthDemandCurrent	PeakDmdRateA	Float	Amps	2
11554	2D21		PeakDmdRateB	Float		2
11556	2D23		PeakDmdRateC	Float		2
11558	2D25		PeakDmdRateD	Float		2
11560	2D27		PeakDmdRateTot	Float		2
11562	2D29		PeakDmdRateRTP	Float		2
11566	2D2D	LastMonthDemand CurrentDate	PeakDmdRateA	Date	Date	6
11572	2D33		PeakDmdRateB	Date		6
11578	2D39		PeakDmdRateC	Date		6
11584	2D3F		PeakDmdRateD	Date		6
11590	2D45		PeakDmdRateTot	Date		6
11596	2D4B		PeakDmdRateRTP	Date		6
11636	2D73	LastMonthFwdReal DemandPower	PeakDmdRateA	Float	Watts	2
11638	2D75		PeakDmdRateB	Float		2
11640	2D77		PeakDmdRateC	Float		2

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
11642	2D79		PeakDmdRateD	Float		2
11644	2D7B		PeakDmdRateTot	Float		2
11646	2D7D		PeakDmdRateRTP	Float		2
11650	2D81	LastMonthFwdReal DemandPower-Date	PeakDmdRateA	Date	Date	6
11656	2D87		PeakDmdRateB	Date		6
11662	2D8D		PeakDmdRateC	Date		6
11668	2D93		PeakDmdRateD	Date		6
11674	2D99		PeakDmdRateTot	Date		6
11680	2D9F		PeakDmdRateRTP	Date		6
11720	2DC7	LastMonthRevReal DemandPower	PeakDmdRateA	Float	Watts	2
11722	2DC9		PeakDmdRateB	Float		2
11724	2DCB		PeakDmdRateC	Float		2
11726	2DCD		PeakDmdRateD	Float		2
11728	2DCF		PeakDmdRateTot	Float		2
11730	2DD1		PeakDmdRateRTP	Float		2
11734	2DD5	LastMonthRevReal DemandPower-Date	PeakDmdRateA	Date	Date	6
11740	2DDB		PeakDmdRateB	Date		6
11746	2DE1		PeakDmdRateC	Date		6
11752	2DE7		PeakDmdRateD	Date		6
11758	2DED		PeakDmdRateTot	Date		6
11764	2DF3		PeakDmdRateRTP	Date		6
11804	2E1B	LastMonthNetReal DemandPower	PeakDmdRateA	Float	Watts	2
11806	2E1D		PeakDmdRateB	Float		2
11808	2E1F		PeakDmdRateC	Float		2
11810	2E21		PeakDmdRateD	Float		2
11812	2E23		PeakDmdRateTot	Float		2
11814	2E25		PeakDmdRateRTP	Float		2
11818	2E29	LastMonthNetReal DemandPower-Date	PeakDmdRateA	Date	Date	6
11824	2E2F		PeakDmdRateB	Date		6
11830	2E35		PeakDmdRateC	Date		6
11836	2E3B		PeakDmdRateD	Date		6
11842	2E41		PeakDmdRateTot	Date		6
11848	2E47		PeakDmdRateRTP	Date		6
11888	2E6F	LastMonthSumReal DemandPower	PeakDmdRateA	Float	Watts	2
11890	2E71		PeakDmdRateB	Float		2
11892	2E73		PeakDmdRateC	Float		2
11894	2E75		PeakDmdRateD	Float		2
11896	2E77		PeakDmdRateTot	Float		2

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
11898	2E79		PeakDmdRateRTP	Float		2
11902	2E7D	LastMonthSumReal DemandPower-Date	PeakDmdRateA	Date	Date	6
11908	2E83		PeakDmdRateB	Date		6
11914	2E89		PeakDmdRateC	Date		6
11920	2E8F		PeakDmdRateD	Date		6
11926	2E95		PeakDmdRateTot	Date		6
11932	2E9B		PeakDmdRateRTP	Date		6
11972	2EC3	LastMonthDeliveredReactive DemandPower	PeakDmdRateA	Float	var	2
11974	2EC5		PeakDmdRateB	Float		2
11976	2EC7		PeakDmdRateC	Float		2
11978	2EC9		PeakDmdRateD	Float		2
11980	2ECB		PeakDmdRateTot	Float		2
11982	2ECD		PeakDmdRateRTP	Float		2
11986	2ED1	LastMonthDeliveredReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
11992	2ED7		PeakDmdRateB	Date		6
11998	2EDD		PeakDmdRateC	Date		6
12004	2EE3		PeakDmdRateD	Date		6
12010	2EE9		PeakDmdRateTot	Date		6
12016	2EEF		PeakDmdRateRTP	Date		6
12056	2F17	LastMonthReceivedReactive DemandPower	PeakDmdRateA	Float	var	2
12058	2F19		PeakDmdRateB	Float		2
12060	2F1B		PeakDmdRateC	Float		2
12062	2F1D		PeakDmdRateD	Float		2
12064	2F1F		PeakDmdRateTot	Float		2
12066	2F21		PeakDmdRateRTP	Float		2
12070	2F25	LastMonthReceivedReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
12076	2F2B		PeakDmdRateB	Date		6
12082	2F31		PeakDmdRateC	Date		6
12088	2F37		PeakDmdRateD	Date		6
12094	2F3D		PeakDmdRateTot	Date		6
12100	2F43		PeakDmdRateRTP	Date		6
12140	2F6B	LastMonthNetReactive DemandPower	PeakDmdRateA	Float	var	2
12142	2F6D		PeakDmdRateB	Float		2
12144	2F6F		PeakDmdRateC	Float		2
12146	2F71		PeakDmdRateD	Float		2
12148	2F73		PeakDmdRateTot	Float		2

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
12150	2F75		PeakDmdRateRTP	Float		2
12154	2F79	LastMonthNetReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
12160	2F7F		PeakDmdRateB	Date		6
12166	2F85		PeakDmdRateC	Date		6
12172	2F8B		PeakDmdRateD	Date		6
12178	2F91		PeakDmdRateTot	Date		6
12184	2F97		PeakDmdRateRTP	Date		6
12224	2FBF	LastMonthSumReactive Demand-Power	PeakDmdRateA	Float	var	2
12226	2FC1		PeakDmdRateB	Float		2
12228	2FC3		PeakDmdRateC	Float		2
12230	2FC5		PeakDmdRateD	Float		2
12232	2FC7		PeakDmdRateTot	Float		2
12234	2FC9		PeakDmdRateRTP	Float		2
12238	2FCD	LastMonthSumReactive Demand-PowerDate	PeakDmdRateA	Date	Date	6
12244	2FD3		PeakDmdRateB	Date		6
12250	2FD9		PeakDmdRateC	Date		6
12256	2FDF		PeakDmdRateD	Date		6
12262	2FE5		PeakDmdRateTot	Date		6
12268	2FEB		PeakDmdRateRTP	Date		6
12308	3013	LastMonthApparent DemandPower	PeakDmdRateA	Float	VA	2
12310	3015		PeakDmdRateB	Float		2
12312	3017		PeakDmdRateC	Float		2
12314	3019		PeakDmdRateD	Float		2
12316	301B		PeakDmdRateTot	Float		2
12318	301D		PeakDmdRateRTP	Float		2
12322	3021	LastMonthApparent DemandPower-Date	PeakDmdRateA	Date	Date	6
12328	3027		PeakDmdRateB	Date		6
12334	302D		PeakDmdRateC	Date		6
12340	3033		PeakDmdRateD	Date		6
12346	3039		PeakDmdRateTot	Date		6
12352	303F		PeakDmdRateRTP	Date		6
12392	3067	LastPeakDemandCurrent	PeakDmdRateA	Float	Amps	2
12394	3069		PeakDmdRateB	Float		2
12396	306B		PeakDmdRateC	Float		2
12398	306D		PeakDmdRateD	Float		2
12400	306F		PeakDmdRateTot	Float		2
12402	3071		PeakDmdRateRTP	Float		2

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
12406	3075	LastPeakDemandCurrentDate	PeakDmdRateA	Date	Date	6
12412	307B		PeakDmdRateB	Date		6
12418	3081		PeakDmdRateC	Date		6
12424	3087		PeakDmdRateD	Date		6
12430	308D		PeakDmdRateTot	Date		6
12436	3093		PeakDmdRateRTP	Date		6
12476	30BB	LastPeakFwdReal DemandPower	PeakDmdRateA	Float	Watts	2
12478	30BD		PeakDmdRateB	Float		2
12480	30BF		PeakDmdRateC	Float		2
12482	30C1		PeakDmdRateD	Float		2
12484	30C3		PeakDmdRateTot	Float		2
12486	30C5		PeakDmdRateRTP	Float		2
12490	30C9	LastPeakFwdReal DemandPower-Date	PeakDmdRateA	Date	Date	6
12496	30CF		PeakDmdRateB	Date		6
12502	30D5		PeakDmdRateC	Date		6
12508	30DB		PeakDmdRateD	Date		6
12514	30E1		PeakDmdRateTot	Date		6
12520	30E7		PeakDmdRateRTP	Date		6
12560	310F	LastPeakRevReal DemandPower	PeakDmdRateA	Float	Watts	2
12562	3111		PeakDmdRateB	Float		2
12564	3113		PeakDmdRateC	Float		2
12566	3115		PeakDmdRateD	Float		2
12568	3117		PeakDmdRateTot	Float		2
12570	3119		PeakDmdRateRTP	Float		2
12574	311D	LastPeakRevReal DemandPower-Date	PeakDmdRateA	Date	Date	6
12580	3123		PeakDmdRateB	Date		6
12586	3129		PeakDmdRateC	Date		6
12592	312F		PeakDmdRateD	Date		6
12598	3135		PeakDmdRateTot	Date		6
12604	313B		PeakDmdRateRTP	Date		6
12644	3163	LastPeakNetReal DemandPower	PeakDmdRateA	Float	Watts	2
12646	3165		PeakDmdRateB	Float		2
12648	3167		PeakDmdRateC	Float		2
12650	3169		PeakDmdRateD	Float		2
12652	316B		PeakDmdRateTot	Float		2
12654	316D		PeakDmdRateRTP	Float		2
12658	3171	LastPeakNetReal DemandPowerDate	PeakDmdRateA	Date	Date	6
12664	3177		PeakDmdRateB	Date		6
12670	317D		PeakDmdRateC	Date		6

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
12676	3183		PeakDmdRateD	Date		6
12682	3189		PeakDmdRateTot	Date		6
12688	318F		PeakDmdRateRTP	Date		6
12728	31B7	LastPeakSumReal DemandPower	PeakDmdRateA	Float	Watts	2
12730	31B9		PeakDmdRateB	Float		2
12732	31BB		PeakDmdRateC	Float		2
12734	31BD		PeakDmdRateD	Float		2
12736	31BF		PeakDmdRateTot	Float		2
12738	31C1		PeakDmdRateRTP	Float		2
12742	31C5	LastPeakSumReal DemandPower-Date	PeakDmdRateA	Date	Date	6
12748	31CB		PeakDmdRateB	Date		6
12754	31D1		PeakDmdRateC	Date		6
12760	31D7		PeakDmdRateD	Date		6
12766	31DD		PeakDmdRateTot	Date		6
12772	31E3		PeakDmdRateRTP	Date		6
12812	320B	LastPeakDeliveredReactive Demand-Power	PeakDmdRateA	Float	var	2
12814	320D		PeakDmdRateB	Float		2
12816	320F		PeakDmdRateC	Float		2
12818	3211		PeakDmdRateD	Float		2
12820	3213		PeakDmdRateTot	Float		2
12822	3215		PeakDmdRateRTP	Float		2
12826	3219	LastPeakDeliveredReactive Demand-PowerDate	PeakDmdRateA	Date	Date	6
12832	321F		PeakDmdRateB	Date		6
12838	3225		PeakDmdRateC	Date		6
12844	322B		PeakDmdRateD	Date		6
12850	3231		PeakDmdRateTot	Date		6
12856	3237		PeakDmdRateRTP	Date		6
12896	325F	LastPeakReceivedReactive Demand-Power	PeakDmdRateA	Float	var	2
12898	3261		PeakDmdRateB	Float		2
12900	3263		PeakDmdRateC	Float		2
12902	3265		PeakDmdRateD	Float		2
12904	3267		PeakDmdRateTot	Float		2
12906	3269		PeakDmdRateRTP	Float		2
12910	326D	LastPeakReceivedReactive Demand-PowerDate	PeakDmdRateA	Date	Date	6
12916	3273		PeakDmdRateB	Date		6
12922	3279		PeakDmdRateC	Date		6
12928	327F		PeakDmdRateD	Date		6

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
12934	3285		PeakDmdRateTot	Date		6
12940	328B		PeakDmdRateRTP	Date		6
12980	32B3	LastPeakNetReactive DemandPower	PeakDmdRateA	Float	var	2
12982	32B5		PeakDmdRateB	Float		2
12984	32B7		PeakDmdRateC	Float		2
12986	32B9		PeakDmdRateD	Float		2
12988	32BB		PeakDmdRateTot	Float		2
12990	32BD		PeakDmdRateRTP	Float		2
12994	32C1	LastPeakNetReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
13000	32C7		PeakDmdRateB	Date		6
13006	32CD		PeakDmdRateC	Date		6
13012	32D3		PeakDmdRateD	Date		6
13018	32D9		PeakDmdRateTot	Date		6
13024	32DF		PeakDmdRateRTP	Date		6
13064	3307	LastPeakSumReactive DemandPower	PeakDmdRateA	Float	var	2
13066	3309		PeakDmdRateB	Float		2
13068	330B		PeakDmdRateC	Float		2
13070	330D		PeakDmdRateD	Float		2
13072	330F		PeakDmdRateTot	Float		2
13074	3311		PeakDmdRateRTP	Float		2
13078	3315	LastPeakSumReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
13084	331B		PeakDmdRateB	Date		6
13090	3321		PeakDmdRateC	Date		6
13096	3327		PeakDmdRateD	Date		6
13102	332D		PeakDmdRateTot	Date		6
13108	3333		PeakDmdRateRTP	Date		6
13148	335B	LastPeakApparent DemandPower	PeakDmdRateA	Float	VA	2
13150	335D		PeakDmdRateB	Float		2
13152	335F		PeakDmdRateC	Float		2
13154	3361		PeakDmdRateD	Float		2
13156	3363		PeakDmdRateTot	Float		2
13158	3365		PeakDmdRateRTP	Float		2
13162	3369	LastPeakApparent DemandPowerDate	PeakDmdRateA	Date	Date	6
13168	336F		PeakDmdRateB	Date		6
13174	3375		PeakDmdRateC	Date		6
13180	337B		PeakDmdRateD	Date		6
13186	3381		PeakDmdRateTot	Date		6

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
13192	3387		PeakDmdRateRTP	Date		6
13232	33AF	LastResetDemandCurrent	PeakDmdRateA	Float	Amps	2
13234	33B1		PeakDmdRateB	Float		2
13236	33B3		PeakDmdRateC	Float		2
13238	33B5		PeakDmdRateD	Float		2
13240	33B7		PeakDmdRateTot	Float		2
13242	33B9		PeakDmdRateRTP	Float		2
13246	33BD	LastResetDemandCurrentDate	PeakDmdRateA	Date	Date	6
13252	33C3		PeakDmdRateB	Date		6
13258	33C9		PeakDmdRateC	Date		6
13264	33CF		PeakDmdRateD	Date		6
13270	33D5		PeakDmdRateTot	Date		6
13276	33DB		PeakDmdRateRTP	Date		6
13316	3403	LastResetFwdReal DemandPower	PeakDmdRateA	Float	Watts	2
13318	3405		PeakDmdRateB	Float		2
13320	3407		PeakDmdRateC	Float		2
13322	3409		PeakDmdRateD	Float		2
13324	340B		PeakDmdRateTot	Float		2
13326	340D		PeakDmdRateRTP	Float		2
13330	3411	LastResetFwdReal DemandPower-Date	PeakDmdRateA	Date	Date	6
13336	3417		PeakDmdRateB	Date		6
13342	341D		PeakDmdRateC	Date		6
13348	3423		PeakDmdRateD	Date		6
13354	3429		PeakDmdRateTot	Date		6
13360	342F		PeakDmdRateRTP	Date		6
13372	343B	LastResetFwdReal PowerAccum	RateA	Energy	Wh	4
13376	343F		RateB	Energy		4
13380	3443		RateC	Energy		4
13384	3447		RateD	Energy		4
13388	344B		RateTot	Energy		4
13392	344F		RateRTP	Energy		4
13400	3457	LastResetRevReal DemandPower	PeakDmdRateA	Float	Watts	2
13402	3459		PeakDmdRateB	Float		2
13404	345B		PeakDmdRateC	Float		2
13406	345D		PeakDmdRateD	Float		2
13408	345F		PeakDmdRateTot	Float		2
13410	3461		PeakDmdRateRTP	Float		2
13414	3465	LastResetRevReal DemandPower-Date	PeakDmdRateA	Date	Date	6
13420	346B		PeakDmdRateB	Date		6

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
13426	3471		PeakDmdRateC	Date		6
13432	3477		PeakDmdRateD	Date		6
13438	347D		PeakDmdRateTot	Date		6
13444	3483		PeakDmdRateRTP	Date		6
13456	348F	LastResetRevReal PowerAccum	RateA	Energy	Wh	4
13460	3493		RateB	Energy		4
13464	3497		RateC	Energy		4
13468	349B		RateD	Energy		4
13472	349F		RateTot	Energy		4
13476	34A3		RateRTP	Energy		4
13484	34AB	LastResetNetReal DemandPower	PeakDmdRateA	Float	Watts	2
13486	34AD		PeakDmdRateB	Float		2
13488	34AF		PeakDmdRateC	Float		2
13490	34B1		PeakDmdRateD	Float		2
13492	34B3		PeakDmdRateTot	Float		2
13494	34B5		PeakDmdRateRTP	Float		2
13498	34B9	LastResetNetReal DemandPower-Date	PeakDmdRateA	Date	Date	6
13504	34BF		PeakDmdRateB	Date		6
13510	34C5		PeakDmdRateC	Date		6
13516	34CB		PeakDmdRateD	Date		6
13522	34D1		PeakDmdRateTot	Date		6
13528	34D7		PeakDmdRateRTP	Date		6
13540	34E3	LastResetNetReal PowerAccum	RateA	Energy	Wh	4
13544	34E7		RateB	Energy		4
13548	34EB		RateC	Energy		4
13552	34EF		RateD	Energy		4
13556	34F3		RateTot	Energy		4
13560	34F7		RateRTP	Energy		4
13568	34FF	LastResetSumReal DemandPower	PeakDmdRateA	Float	Watts	2
13570	3501		PeakDmdRateB	Float		2
13572	3503		PeakDmdRateC	Float		2
13574	3505		PeakDmdRateD	Float		2
13576	3507		PeakDmdRateTot	Float		2
13578	3509		PeakDmdRateRTP	Float		2
13582	350D	LastResetSumReal DemandPower-Date	PeakDmdRateA	Date	Date	6
13588	3513		PeakDmdRateB	Date		6
13594	3519		PeakDmdRateC	Date		6
13600	351F		PeakDmdRateD	Date		6
13606	3525		PeakDmdRateTot	Date		6
13612	352B		PeakDmdRateRTP	Date		6

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
13624	3537	LastResetSumReal PowerAccum	RateA	Energy	Wh	4
13628	353B		RateB	Energy		4
13632	353F		RateC	Energy		4
13636	3543		RateD	Energy		4
13640	3547		RateTot	Energy		4
13644	354B		RateRTP	Energy		4
13652	3553	LastResetDeliveredReactive DemandPower	PeakDmdRateA	Float	var	2
13654	3555		PeakDmdRateB	Float		2
13656	3557		PeakDmdRateC	Float		2
13658	3559		PeakDmdRateD	Float		2
13660	355B		PeakDmdRateTot	Float		2
13662	355D		PeakDmdRateRTP	Float		2
13666	3561	LastResetDeliveredReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
13672	3567		PeakDmdRateB	Date		6
13678	356D		PeakDmdRateC	Date		6
13684	3573		PeakDmdRateD	Date		6
13690	3579		PeakDmdRateTot	Date		6
13696	357F		PeakDmdRateRTP	Date		6
13708	358B	LastResetDeliveredReactive Power-Accum	RateA	Energy	varh	4
13712	358F		RateB	Energy		4
13716	3593		RateC	Energy		4
13720	3597		RateD	Energy		4
13724	359B		RateTot	Energy		4
13728	359F		RateRTP	Energy		4
13736	35A7	LastResetReceivedReactive DemandPower	PeakDmdRateA	Float	var	2
13738	35A9		PeakDmdRateB	Float		2
13740	35AB		PeakDmdRateC	Float		2
13742	35AD		PeakDmdRateD	Float		2
13744	35AF		PeakDmdRateTot	Float		2
13746	35B1		PeakDmdRateRTP	Float		2
13750	35B5	LastResetReceivedReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
13756	35BB		PeakDmdRateB	Date		6
13762	35C1		PeakDmdRateC	Date		6
13768	35C7		PeakDmdRateD	Date		6
13774	35CD		PeakDmdRateTot	Date		6
13780	35D3		PeakDmdRateRTP	Date		6
13792	35DF	LastResetReceivedReactive Power-Accum	RateA	Energy	varh	4

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
13796	35E3		RateB	Energy		4
13800	35E7		RateC	Energy		4
13804	35EB		RateD	Energy		4
13808	35EF		RateTot	Energy		4
13812	35F3		RateRTP	Energy		4
13820	35FB	LastResetNetReactive Demand-Power	PeakDmdRateA	Float	var	2
13822	35FD		PeakDmdRateB	Float		2
13824	35FF		PeakDmdRateC	Float		2
13826	3601		PeakDmdRateD	Float		2
13828	3603		PeakDmdRateTot	Float		2
13830	3605		PeakDmdRateRTP	Float		2
13834	3609	LastResetNetReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
13840	360F		PeakDmdRateB	Date		6
13846	3615		PeakDmdRateC	Date		6
13852	361B		PeakDmdRateD	Date		6
13858	3621		PeakDmdRateTot	Date		6
13864	3627		PeakDmdRateRTP	Date		6
13876	3633	LastResetNetReactive PowerAccum	RateA	Energy	varh	4
13880	3637		RateB	Energy		4
13884	363B		RateC	Energy		4
13888	363F		RateD	Energy		4
13892	3643		RateTot	Energy		4
13896	3647		RateRTP	Energy		4
13904	364F	LastResetSumReactive Demand-Power	PeakDmdRateA	Float	var	2
13906	3651		PeakDmdRateB	Float		2
13908	3653		PeakDmdRateC	Float		2
13910	3655		PeakDmdRateD	Float		2
13912	3657		PeakDmdRateTot	Float		2
13914	3659		PeakDmdRateRTP	Float		2
13918	365D	LastResetSumReactive DemandPowerDate	PeakDmdRateA	Date	Date	6
13924	3663		PeakDmdRateB	Date		6
13930	3669		PeakDmdRateC	Date		6
13936	366F		PeakDmdRateD	Date		6
13942	3675		PeakDmdRateTot	Date		6
13948	367B		PeakDmdRateRTP	Date		6
13960	3687	LastResetSumReactive PowerAccum	RateA	Energy	varh	4
13964	368B		RateB	Energy		4

Modbus Register	Hex Modbus Register			Type/d	Units	Register Count
13968	368F		RateC	Energy		4
13972	3693		RateD	Energy		4
13976	3697		RateTot	Energy		4
13980	369B		RateRTP	Energy		4
13988	36A3	LastResetApparent DemandPower	PeakDmdRateA	Float	VA	2
13990	36A5		PeakDmdRateB	Float		2
13992	36A7		PeakDmdRateC	Float		2
13994	36A9		PeakDmdRateD	Float		2
13996	36AB		PeakDmdRateTot	Float		2
13998	36AD		PeakDmdRateRTP	Float		2
14002	36B1	LastResetApparent DemandPower-Date	PeakDmdRateA	Date	Date	6
14008	36B7		PeakDmdRateB	Date		6
14014	36BD		PeakDmdRateC	Date		6
14020	36C3		PeakDmdRateD	Date		6
14026	36C9		PeakDmdRateTot	Date		6
14032	36CF		PeakDmdRateRTP	Date		6
14044	36DB	LastResetApparent DemandPower-Accum	RateA	Energy	VA h	4
14048	36DF		RateB	Energy		4
14052	36E3		RateC	Energy		4
14056	36E7		RateD	Energy		4
14060	36EB		RateTot	Energy		4
14064	36EF		RateRTP	Energy		4
14112	371F	PresentDemand	elavgDmd	Float		2
14114	3721		WattFwdDmd	Float		2
14116	3723		WattRevDmd	Float		2
14118	3725		WattNetDmd	Float		2
14120	3727		WattTotDmd	Float		2
14122	3729		VarDeliveredDmd	Float		2
14124	372B		VarReceivedDmd	Float		2
14126	372D		VarNetDmd	Float		2
14128	372F		VarTotDmd	Float		2
14130	3731		VADmd	Float		2
14152	3747	SagSwellCount (not supported in PXM 4000)	SagLev1	Uint16		1
14153	3748	(not supported in PXM 4000)	SagLev2	Uint16		1
14154	3749	(not supported in PXM 4000)	SagLev4	Uint16		1
14155	374A	(not supported in PXM 4000)	SagLev8	Uint16		1
14156	374B	(not supported in PXM 4000)	SwellLev1	Uint16		1

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
14157	374C	(not supported in PXM 4000)	SwellLev2	Uint16		1
14158	374D	(not supported in PXM 4000)	SwellLev4	Uint16		1
14159	374E	(not supported in PXM 4000)	SwellLev8	Uint16		1

3. THD magnitude registers on Modbus

Modbus Register	Hex Modbus Register	Description		Type Id	Units	Register Count
14200	3777	Total Harmonic Distortion (THD)	NeutralCurrent	Float	Amps	2
14202	3779		AUX PhaseAtoBVoltage	Float	Volts	2
14204	377B		AUX PhaseBtoCVoltage	Float	Volts	2
14206	377D		AUX PhaseCtoAVoltage	Float	Volts	2
14208	377F		PhaseACurrent	Float	Amps	2
14210	3781		PhaseAtoBVoltage	Float	Volts	2
14212	3783		PhaseAtoNeutralVoltage	Float	Volts	2
14214	3785		PhaseBCurrent	Float	Amps	2
14216	3787		PhaseBtoCVoltage	Float	Volts	2
14218	3789		PhaseBtoNeutralVoltage	Float	Volts	2
14220	378B		PhaseCCurrent	Float	Amps	2
14222	378D		PhaseCtoAVoltage	Float	Volts	2
14224	378F		PhaseCtoNeutralVoltage	Float	Volts	2
14226	3791	Total Harmonic Distortion - Even Harmonics (THD)	NeutralCurrent	Float	Amps	2
14228	3793		AUX PhaseAtoBVoltage	Float	Volts	2
14230	3795		AUX PhaseBtoCVoltage	Float	Volts	6
14232	3797		AUX PhaseCtoAVoltage	Float	Volts	
14234	3799		PhaseACurrent	Float	Amps	
14236	379B		PhaseAtoBVoltage	Float	Volts	
14238	379D		PhaseAtoNeutralVoltage	Float	Volts	
14240	379F		PhaseBCurrent	Float	Amps	
14242	37A1		PhaseBtoCVoltage	Float	Volts	
14244	37A3		PhaseBtoNeutralVoltage	Float	Volts	
14246	37A5		PhaseCCurrent	Float	Amps	
14248	37A7		PhaseCtoAVoltage	Float	Volts	
14250	37A9		PhaseCtoNeutralVoltage	Float	Volts	
14252	37AB	Total Harmonic Distortion - Odd Harmonics (THD)	NeutralCurrent	Float	Amps	

Modbus Register	Hex Modbus Register	Description	Type Id	Units	Register Count	
14254	37AD		AUX PhaseAtoBVoltage	Float	Volts	
14256	37AF		AUX PhaseBtoCVoltage	Float	Volts	
14258	37B1		AUX PhaseCtoAVoltage	Float	Volts	
14260	37B3		PhaseACurrent	Float	Amps	
14262	37B5		PhaseAtoBVoltage	Float	Volts	
14264	37B7		PhaseAtoNeutralVoltage	Float	Volts	
14266	37B9		PhaseBCurrent	Float	Amps	
14268	37BB		PhaseBtoCVoltage	Float	Volts	
14270	37BD		PhaseBtoNeutralVoltage	Float	Volts	
14272	37BF		PhaseCCurrent	Float	Amps	
14274	37C1		PhaseCtoAVoltage	Float	Volts	
14276	37C3		PhaseCtoNeutralVoltage	Float	Volts	
14278	37C5	Total Harmonic Distortion - Interharmonics (THD)	NeutralCurrent	Float	Amps	
14280	37C7		AUX PhaseAtoBVoltage	Float	Volts	
14282	37C9		AUX PhaseBtoCVoltage	Float	Volts	
14284	37CB		AUX PhaseCtoAVoltage	Float	Volts	
14286	37CD		PhaseACurrent	Float	Amps	
14288	37CF		PhaseAtoBVoltage	Float	Volts	
14290	37D1		PhaseAtoNeutralVoltage	Float	Volts	
14292	37D3		PhaseBCurrent	Float	Amps	
14294	37D5		PhaseBtoCVoltage	Float	Volts	
14296	37D7		PhaseBtoNeutralVoltage	Float	Volts	
14298	37D9		PhaseCCurrent	Float	Amps	
14300	37DB		PhaseCtoAVoltage	Float	Volts	
14302	37DD		PhaseCtoNeutralVoltage	Float	Volts	

4. THD/TDD percentage registers on Modbus

Modbus Register	Hex Modbus Register	Description	Type Id	Units	Register Count	
14304	37DF	Total Demand Distortion (TDD)	NeutralCurrent	Float	Percentage	2
14306	37E1	Total Harmonic Distortion (THD)	AUX PhaseAtoBVoltage	Float	Percentage	2
14308	37E3	Total Harmonic Distortion (THD)	AUX PhaseBtoCVoltage	Float	Percentage	2
14310	37E5	Total Harmonic Distortion (THD)	AUX PhaseCtoAVoltage	Float	Percentage	2
14312	37E7	Total Demand Distortion (TDD)	PhaseACurrent	Float	Percentage	2

Modbus Register	Hex Modbus Register	Description	Type Id	Units	Register Count	
14314	37E9	Total Harmonic Distortion (THD)	PhaseAtoBVoltage	Float	Percentage	2
14316	37EB	Total Harmonic Distortion (THD)	PhaseAtoNeutralVoltage	Float	Percentage	2
14318	37ED	Total Demand Distortion (TDD)	PhaseBCurrent	Float	Percentage	2
14320	37EF	Total Harmonic Distortion (THD)	PhaseBtoCVoltage	Float	Percentage	2
14322	37F1	Total Harmonic Distortion (THD)	PhaseBtoNeutralVoltage	Float	Percentage	2
14324	37F3	Total Demand Distortion (TDD)	PhaseCCurrent	Float	Percentage	2
14326	37F5	Total Harmonic Distortion (THD)	PhaseCtoAVoltage	Float	Percentage	2
14328	37F7	Total Harmonic Distortion (THD)	PhaseCtoNeutralVoltage	Float	Percentage	2
14330	37F9	Total Demand Distortion – Even Harmonics (TDD)	NeutralCurrent	Float	Percentage	2
14332	37FB	Total Harmonic Distortion – Even Harmonics (THD)	AUX PhaseAtoBVoltage	Float	Percentage	2
14334	37FD	Total Harmonic Distortion – Even Harmonics (THD)	AUX PhaseBtoCVoltage	Float	Percentage	2
14336	37FF	Total Harmonic Distortion – Even Harmonics (THD)	AUX PhaseCtoAVoltage	Float	Percentage	2
14338	3801	Total Demand Distortion – Even Harmonics (TDD)	PhaseACurrent	Float	Percentage	2
14340	3803	Total Harmonic Distortion – Even Harmonics (THD)	PhaseAtoBVoltage	Float	Percentage	2
14342	3805	Total Harmonic Distortion – Even Harmonics (THD)	PhaseAtoNeutralVoltage	Float	Percentage	2
14344	3807	Total Demand Distortion – Even Harmonics (TDD)	PhaseBCurrent	Float	Percentage	2
14346	3809	Total Harmonic Distortion – Even Harmonics (THD)	PhaseBtoCVoltage	Float	Percentage	2
14348	380B	Total Harmonic Distortion – Even Harmonics (THD)	PhaseBtoNeutralVoltage	Float	Percentage	2
14350	380D	Total Demand Distortion – Even Harmonics (TDD)	PhaseCCurrent	Float	Percentage	2
14352	380F	Total Harmonic Distortion – Even Harmonics (THD)	PhaseCtoAVoltage	Float	Percentage	2
14354	3811	Total Harmonic Distortion – Even Harmonics (THD)	PhaseCtoNeutralVoltage	Float	Percentage	2
14356	3813	Total Demand Distortion – Odd Harmonics (TDD)	NeutralCurrent	Float	Percentage	2
14358	3815	Total Harmonic Distortion – Odd Harmonics (THD)	AUX PhaseAtoBVoltage	Float	Percentage	2
14360	3817	Total Harmonic Distortion – Odd Harmonics (THD)	AUX PhaseBtoCVoltage	Float	Percentage	2
14362	3819	Total Harmonic Distortion – Odd Harmonics (THD)	AUX PhaseCtoAVoltage	Float	Percentage	2
14364	381B	Total Demand Distortion – Odd Harmonics (TDD)	PhaseACurrent	Float	Percentage	2

Modbus Register	Hex Modbus Register	Description	Type Id	Units	Register Count	
14366	381D	Total Harmonic Distortion – Odd Harmonics (THD)	PhaseAtoBVoltage	Float	Percentage	2
14368	381F	Total Harmonic Distortion – Odd Harmonics (THD)	PhaseAtoNeutralVoltage	Float	Percentage	2
14370	3821	Total Demand Distortion – Odd Harmonics (TDD)	PhaseBCurrent	Float	Percentage	2
14372	3823	Total Harmonic Distortion – Odd Harmonics (THD)	PhaseBtoCVoltage	Float	Percentage	2
14374	3825	Total Harmonic Distortion – Odd Harmonics (THD)	PhaseBtoNeutralVoltage	Float	Percentage	2
14376	3827	Total Demand Distortion – Odd Harmonics (TDD)	PhaseCCurrent	Float	Percentage	2
14378	3829	Total Harmonic Distortion – Odd Harmonics (THD)	PhaseCtoAVoltage	Float	Percentage	2
14380	382B	Total Harmonic Distortion – Odd Harmonics (THD)	PhaseCtoNeutralVoltage	Float	Percentage	2
14382	382D	Total Demand Distortion – Inter-Harmonics (TDD)	NeutralCurrent	Float	Percentage	2
14384	382F	Total Harmonic Distortion – Inter-Harmonics (THD)	AUX PhaseAtoBVoltage	Float	Percentage	2
14386	3831	Total Harmonic Distortion – Inter-Harmonics (THD)	AUX PhaseBtoCVoltage	Float	Percentage	2
14388	3833	Total Harmonic Distortion – Inter-Harmonics (THD)	AUX PhaseCtoAVoltage	Float	Percentage	2
14390	3835	Total Demand Distortion – Inter-Harmonics (TDD)	PhaseACurrent	Float	Percentage	2
14392	3837	Total Harmonic Distortion – Inter-Harmonics (THD)	PhaseAtoBVoltage	Float	Percentage	2
14394	3839	Total Harmonic Distortion – Inter-Harmonics (THD)	PhaseAtoNeutralVoltage	Float	Percentage	2
14396	383B	Total Demand Distortion – Inter-Harmonics (TDD)	PhaseBCurrent	Float	Percentage	2
14398	383D	Total Harmonic Distortion – Inter-Harmonics (THD)	PhaseBtoCVoltage	Float	Percentage	2
14400	383F	Total Harmonic Distortion – Inter-Harmonics (THD)	PhaseBtoNeutralVoltage	Float	Percentage	2
14402	3841	Total Demand Distortion – Inter-Harmonics (TDD)	PhaseCCurrent	Float	Percentage	2
14404	3843	Total Harmonic Distortion – Inter-Harmonics (THD)	PhaseCtoAVoltage	Float	Percentage	2
14406	3845	Total Harmonic Distortion – Inter-Harmonics (THD)	PhaseCtoNeutralVoltage	Float	Percentage	2
19384	4BB7	PQIndex	PQlatest10min	Float		2
19386	4BB9		PQlatest24hour	Float		2

19388	4BBB		MeanPQ	Float		2
19404	4BCB	(not supported in PXM 4000)	SagLevel	Float		2
19406	4BCD	(not supported in PXM 4000)	SwellLevel	Float		2
19408	4BCF		DvDtCount	Float		2
19410	4BD1		TDDIavg	Float		2
19412	4BD3		THDVavg	Float		2
19414	4BD5	(not supported in PXM 4000)	Pst	Float		2
19428	4BE3	(not supported in PXM 4000)	SagScore	Float		2
19430	4BE5	(not supported in PXM 4000)	SwellScore	Float		2
19432	4BE7		DvDtScore	Float		2
19434	4BE9		THDIavgScore	Float		2
19436	4BEB		THDVavgScore	Float		2
19438	4BED	(not supported in PXM 4000)	PstScore	Float		2
19440	4BEF		PQResetTime	Date		6

5. Minimum and Maximum Register Map

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
19446	4BF5	Minimums	Van	Float		2
19448	4BF7		Vbn	Float		2
19450	4BF9		Vcn	Float		2
19452	4BFB		VInavg	Float		2
19454	4BFD		Vng	Float		2
19456	4BFF		Vab	Float		2
19458	4C01		Vbc	Float		2
19460	4C03		Vca	Float		2
19462	4C05		Vllavg	Float		2
19464	4C07		Vab2	Float		2
19466	4C09		Vbc2	Float		2
19468	4C0B		Vca2	Float		2
19470	4C0D		VLLavg2	Float		2
19472	4C0F		Ia	Float		2
19474	4C11		Ib	Float		2
19476	4C13		Ic	Float		2
19478	4C15		In	Float		2
19480	4C17		Ig	Float		2
19482	4C19		SystemFrequency	Float		2
19484	4C1B		PFaApparent	Float		2
19486	4C1D		PFbApparent	Float		2
19488	4C1F		PFcApparent	Float		2
19490	4C21		PFsysApparent	Float		2
19492	4C23		PFaDisplacement	Float		2
19494	4C25		PFbDisplacement	Float		2

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
19496	4C27		PFcDisplacement	Float		2
19498	4C29		PFsysDisplacement	Float		2
19500	4C2B	(not supported in PXM 4000)	FlickerVan	Float		2
19502	4C2D	(not supported in PXM 4000)	FlickerVbn	Float		2
19504	4C2F	(not supported in PXM 4000)	FlickerVcn	Float		2
19506	4C31	(not supported in PXM 4000)	FlickerVab	Float		2
19508	4C33	(not supported in PXM 4000)	FlickerVbc	Float		2
19510	4C35	(not supported in PXM 4000)	FlickerVca	Float		2
19512	4C37		CrestFactorIa	Float		2
19514	4C39		CrestFactorIb	Float		2
19516	4C3B		CrestFactorIc	Float		2
19518	4C3D		CrestFactorSys	Float		2
19520	4C3F		KFactorIa	Float		2
19522	4C41		KFactorIb	Float		2
19524	4C43		KFactorIc	Float		2
19526	4C45		KFactorSys	Float		2
19528	4C47		MinMaxResetTime	Date		6
19534	4C4D	MinTimeStamp	Van	Date		6
19540	4C53		Vbn	Date		6
19546	4C59		Vcn	Date		6
19552	4C5F		Vlnavg	Date		6
19558	4C65		Vng	Date		6
19564	4C6B		Vab	Date		6
19570	4C71		Vbc	Date		6
19576	4C77		Vca	Date		6
19582	4C7D		Vllavg	Date		6
19588	4C83		Vab2	Date		6
19594	4C89		Vbc2	Date		6
19600	4C8F		Vca2	Date		6
19606	4C95		VLLavg2	Date		6
19612	4C9B		Ia	Date		6
19618	4CA1		Ib	Date		6
19624	4CA7		Ic	Date		6
19630	4CAD		In	Date		6
19636	4CB3		Ig	Date		6
19642	4CB9		SystemFrequency	Date		6
19648	4CBF		PFaApparent	Date		6
19654	4CC5		PFbApparent	Date		6
19660	4CCB		PFcApparent	Date		6
19666	4CD1		PFsysApparent	Date		6
19672	4CD7		PFaDisplacement	Date		6

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
19678	4CDD		PFbDisplacement	Date		6
19684	4CE3		PFcDisplacement	Date		6
19690	4CE9		PFsysDisplacement	Date		6
19696	4CEF	(not supported in PXM 4000)	FlickerVan	Date		6
19702	4CF5	(not supported in PXM 4000)	FlickerVbn	Date		6
19708	4CFB	(not supported in PXM 4000)	FlickerVcn	Date		6
19714	4D01	(not supported in PXM 4000)	FlickerVab	Date		6
19720	4D07	(not supported in PXM 4000)	FlickerVbc	Date		6
19726	4D0D	(not supported in PXM 4000)	FlickerVca	Date		6
19732	4D13		CrestFactorIa	Date		6
19738	4D19		CrestFactorIb	Date		6
19744	4D1F		CrestFactorIc	Date		6
19750	4D25		CrestFactorSys	Date		6
19756	4D2B		KFactorIa	Date		6
19762	4D31		KFactorIb	Date		6
19768	4D37		KFactorIc	Date		6
19774	4D3D		KFactorSys	Date		6
19780	4D43		MinMaxResetTime	Date		6
19786	4D49	Maximums	Van	Float		2
19788	4D4B		Vbn	Float		2
19790	4D4D		Vcn	Float		2
19792	4D4F		VInavg	Float		2
19794	4D51		Vng	Float		2
19796	4D53		Vab	Float		2
19798	4D55		Vbc	Float		2
19800	4D57		Vca	Float		2
19802	4D59		Vllavg	Float		2
19804	4D5B		Vab2	Float		2
19806	4D5D		Vbc2	Float		2
19808	4D5F		Vca2	Float		2
19810	4D61		VLLavg2	Float		2
19812	4D63		Ia	Float		2
19814	4D65		Ib	Float		2
19816	4D67		Ic	Float		2
19818	4D69		In	Float		2
19820	4D6B		Ig	Float		2
19822	4D6D		SystemFrequency	Float		2
19824	4D6F		PFaApparent	Float		2
19826	4D71		PFbApparent	Float		2
19828	4D73		PFcApparent	Float		2
19830	4D75		PFsysApparent	Float		2
19832	4D77		PFaDisplacement	Float		2

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
19834	4D79		PFbDisplacement	Float		2
19836	4D7B		PFcDisplacement	Float		2
19838	4D7D		PFsysDisplacement	Float		2
19840	4D7F	(not supported in PXM 4000)	FlickerVan	Float		2
19842	4D81	(not supported in PXM 4000)	FlickerVbn	Float		2
19844	4D83	(not supported in PXM 4000)	FlickerVcn	Float		2
19846	4D85	(not supported in PXM 4000)	FlickerVab	Float		2
19848	4D87	(not supported in PXM 4000)	FlickerVbc	Float		2
19850	4D89	(not supported in PXM 4000)	FlickerVca	Float		2
19852	4D8B		CrestFactorIa	Float		2
19854	4D8D		CrestFactorIb	Float		2
19856	4D8F		CrestFactorIc	Float		2
19858	4D91		CrestFactorSys	Float		2
19860	4D93		KFactorIa	Float		2
19862	4D95		KFactorIb	Float		2
19864	4D97		KFactorIc	Float		2
19866	4D99		KFactorSys	Float		2
19868	4D9B		MinMaxResetTime	Date		6
19874	4DA1	MaxTimeStamp	Van	Date		6
19880	4DA7		Vbn	Date		6
19886	4DAD		Vcn	Date		6
19892	4DB3		VInavg	Date		6
19898	4DB9		Vng	Date		6
19904	4DBF		Vab	Date		6
19910	4DC5		Vbc	Date		6
19916	4DCB		Vca	Date		6
19922	4DD1		Vllavg	Date		6
19928	4DD7		Vab2	Date		6
19934	4DDD		Vbc2	Date		6
19940	4DE3		Vca2	Date		6
19946	4DE9		VLLavg2	Date		6
19952	4DEF		Ia	Date		6
19958	4DF5		Ib	Date		6
19964	4DFB		Ic	Date		6
19970	4E01		In	Date		6
19976	4E07		Ig	Date		6
19982	4E0D		SystemFrequency	Date		6
19988	4E13		PFaApparent	Date		6
19994	4E19		PFbApparent	Date		6
20000	4E1F		PFcApparent	Date		6
20006	4E25		PFsysApparent	Date		6
20012	4E2B		PFaDisplacement	Date		6

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
20018	4E31		PFbDisplacement	Date		6
20024	4E37		PFcDisplacement	Date		6
20030	4E3D		PFsysDisplacement	Date		6
20036	4E43	(not supported in the PXM 4000)	FlickerVan	Date		6
20042	4E49	(not supported in the PXM 4000)	FlickerVbn	Date		6
20048	4E4F	(not supported in the PXM 4000)	FlickerVcn	Date		6
20054	4E55	(not supported in the PXM 4000)	FlickerVab	Date		6
20060	4E5B	(not supported in the PXM 4000)	FlickerVbc	Date		6
20066	4E61	(not supported in the PXM 4000)	FlickerVca	Date		6
20072	4E67		CrestFactorIa	Date		6
20078	4E6D		CrestFactorIb	Date		6
20084	4E73		CrestFactorIc	Date		6
20090	4E79		CrestFactorSys	Date		6
20096	4E7F		KFactorIa	Date		6
20102	4E85		KFactorIb	Date		6
20108	4E8B		KFactorIc	Date		6
20114	4E91		KFactorSys	Date		6
20120	4E97		MinMaxResetTime	Date		6

6. I/O Register Map

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
20126	4E9D	Discrete Input 1	Function	Uint16		1
20127	4E9E	Discrete Input 2	Function	Uint16		1
20128	4E9F	Discrete Input 3	Function	Uint16		1
20129	4EA0	Discrete Input 4	Function	Uint16		1
20130	4EA1	Discrete Input 5	Function	Uint16		1
20131	4EA2	Discrete Input 6	Function	Uint16		1
20132	4EA3	Discrete Input 7	Function	Uint16		1
20133	4EA4	Discrete Input 8	Function	Uint16		1
20134	4EA5	Solid State Relay 1	Function	Uint16		1
20135	4EA6	Solid State Relay 2	Function	Uint16		1
20136	4EA7	Form-C Relay 1	Function	Uint16		1
20137	4EA8	Form-C Relay 2	Function	Uint16		1
20138	4EA9	Form-C Relay 3	Function	Uint16		1
20139	4EAA	Discrete Input 1	Status	Uint16		1
20140	4EAB	Discrete Input 2	Status	Uint16		1
20141	4EAC	Discrete Input 3	Status	Uint16		1
20142	4EAD	Discrete Input 4	Status	Uint16		1
20143	4EAE	Discrete Input 5	Status	Uint16		1

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
20144	4EAF	Discrete Input 6	Status	Uint16		1
20145	4EB0	Discrete Input 7	Status	Uint16		1
20146	4EB1	Discrete Input 8	Status	Uint16		1
20147	4EB2	Solid State Relay 1	Status	Uint16		1
20148	4EB3	Solid State Relay 2	Status	Uint16		1
20149	4EB4	Form-C Relay 1	Status	Uint16		1
20150	4EB5	Form-C Relay 2	Status	Uint16		1
20151	4EB6	Form-C Relay 3	Status	Uint16		1
20152	4EB7	Discrete Input 1	Count	Uint16		1
20153	4EB8	Discrete Input 2	Count	Uint16		1
20154	4EB9	Discrete Input 3	Count	Uint16		1
20155	4EBA	Discrete Input 4	Count	Uint16		1
20156	4EBB	Discrete Input 5	Count	Uint16		1
20157	4EBC	Discrete Input 6	Count	Uint16		1
20158	4EBD	Discrete Input 7	Count	Uint16		1
20159	4EBE	Discrete Input 8	Count	Uint16		1
20160	4EBF	Solid State Relay 1	Count	Uint16		1
20161	4EC0	Solid State Relay 2	Count	Uint16		1
20162	4EC1	Form-C Relay 1	Count	Uint16		1
20163	4EC2	Form-C Relay 2	Count	Uint16		1
20164	4EC3	Form-C Relay 3	Count	Uint16		1

7. Event Trigger Register Map

Modbus Register	Hex Modbus Register			Typeld	Units	Register Count
18620	48BB	EventTriggerPushDownList[0]	EventID	Uint32		2
18622	48BD		EventTime	Date		6
18628	48C3		Cause	Uint16		1
18629	48C4		Param1	Float		2
18631	48C6		Waveform Id (0xffffffff if none)	Uint32		2
18633	48C8	EventTriggerPushDownList[1]	EventID	Uint32		2
18635	48CA		EventTime	Date		6
18641	48D0		Cause	Uint16		1
18642	48D1		Param1	Float		2
18644	48D3		Waveform Id (0xffffffff if none)	Uint32		2
18646	48D5	EventTriggerPushDownList[2]	EventID	Uint32		2
18648	48D7		EventTime	Date		6
18654	48DD		Cause	Uint16		1
18655	48DE		Param1	Float		2
18657	48E0		Waveform Id (0xffffffff if none)	Uint32		2
18659	48E2	EventTriggerPushDownList[3]	EventID	Uint32		2
18661	48E4		EventTime	Date		6
18667	48EA		Cause	Uint16		1
18668	48EB		Param1	Float		2
18670	48ED		Waveform Id (0xffffffff if none)	Uint32		2
18672	48EF	EventTriggerPushDownList[4]	EventID	Uint32		2
18674	48F1		EventTime	Date		6
18680	48F7		Cause	Uint16		1
18681	48F8		Param1	Float		2
18683	48FA		Waveform Id (0xffffffff if none)	Uint32		2
18685	48FC	EventTriggerPushDownList[5]	EventID	Uint32		2
18687	48FE		EventTime	Date		6
18693	4904		Cause	Uint16		1
18694	4905		Param1	Float		2
18696	4907		Waveform Id (0xffffffff if none)	Uint32		2
18698	4909	EventTriggerPushDownList[6]	EventID	Uint32		2
18700	490B		EventTime	Date		6
18706	4911		Cause	Uint16		1
18707	4912		Param1	Float		2
18709	4914		Waveform Id (0xffffffff if none)	Uint32		2
18711	4916	EventTriggerPushDownList[7]	EventID	Uint32		2
18713	4918		EventTime	Date		6

18719	491E		Cause	Uint16	1
18720	491F		Param1	Float	2
18722	4921		Waveform Id (0xffffffff if none)	Uint32	2
18724	4923	EventTriggerPushDownList[8]	EventID	Uint32	2
18726	4925		EventTime	Date	6
18732	492B		Cause	Uint16	1
18733	492C		Param1	Float	2
18735	492E		Waveform Id (0xffffffff if none)	Uint32	2
18737	4930	EventTriggerPushDownList[9]	EventID	Uint32	2
18739	4932		EventTime	Date	6
18745	4938		Cause	Uint16	1
18746	4939		Param1	Float	2
18748	493B		Waveform Id (0xffffffff if none)	Uint32	2
18750	493D	EventTriggerPushDownList[10]	EventID	Uint32	2
18752	493F		EventTime	Date	6
18758	4945		Cause	Uint16	1
18759	4946		Param1	Float	2
18761	4948		Waveform Id (0xffffffff if none)	Uint32	2
18763	494A	EventTriggerPushDownList[11]	EventID	Uint32	2
18765	494C		EventTime	Date	6
18771	4952		Cause	Uint16	1
18772	4953		Param1	Float	2
18774	4955		Waveform Id (0xffffffff if none)	Uint32	2
18776	4957	EventTriggerPushDownList[12]	EventID	Uint32	2
18778	4959		EventTime	Date	6
18784	495F		Cause	Uint16	1
18785	4960		Param1	Float	2
18787	4962		Waveform Id (0xffffffff if none)	Uint32	2
18789	4964	EventTriggerPushDownList[13]	EventID	Uint32	2
18791	4966		EventTime	Date	6
18797	496C		Cause	Uint16	1
18798	496D		Param1	Float	2
18800	496F		Waveform Id (0xffffffff if none)	Uint32	2
18802	4971	EventTriggerPushDownList[14]	EventID	Uint32	2
18804	4973		EventTime	Date	6
18810	4979		Cause	Uint16	1
18811	497A		Param1	Float	2
18813	497C		Waveform Id (0xffffffff if none)	Uint32	2
18815	497E	EventTriggerPushDownList[15]	EventID	Uint32	2
18817	4980		EventTime	Date	6
18823	4986		Cause	Uint16	1
18824	4987		Param1	Float	2
18826	4989		Waveform Id (0xffffffff if none)	Uint32	2
18828	498B	EventTriggerPushDownList[16]	EventID	Uint32	2
18830	498D		EventTime	Date	6

18836	4993		Cause	Uint16	1
18837	4994		Param1	Float	2
18839	4996		Waveform Id (0xffffffff if none)	Uint32	2
18841	4998	EventTriggerPushDownList[17]	EventID	Uint32	2
18843	499A		EventTime	Date	6
18849	49A0		Cause	Uint16	1
18850	49A1		Param1	Float	2
18852	49A3		Waveform Id (0xffffffff if none)	Uint32	2
18854	49A5	EventTriggerPushDownList[18]	EventID	Uint32	2
18856	49A7		EventTime	Date	6
18862	49AD		Cause	Uint16	1
18863	49AE		Param1	Float	2
18865	49B0		Waveform Id (0xffffffff if none)	Uint32	2
18867	49B2	EventTriggerPushDownList[19]	EventID	Uint32	2
18869	49B4		EventTime	Date	6
18875	49BA		Cause	Uint16	1
18876	49BB		Param1	Float	2
18878	49BD		Waveform Id (0xffffffff if none)	Uint32	2

8. Event Log Register Map

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
29000	7147	EventLogPushDownList[0]	EventID	Uint32		2
29002	7149		EventTime	Date		6
29008	714F		Number of Bytes (1-150)	Uint16		1
29009	7150		ASCII string (1-150 characters)	Char		75
29084	719B	EventLogPushDownList[1]	EventID	Uint32		2
29086	719D		EventTime	Date		6
29092	71A3		Number of Bytes (1-150)	Uint16		1
29093	71A4		ASCII string (1-150 characters)	Char		75
29168	71EF	EventLogPushDownList[2]	EventID	Uint32		2
29170	71F1		EventTime	Date		6
29176	71F7		Number of Bytes (1-150)	Uint16		1
29177	71F8		ASCII string (1-150 characters)	Char		75
29252	7243	EventLogPushDownList[3]	EventID	Uint32		2
29254	7245		EventTime	Date		6
29260	724B		Number of Bytes (1-150)	Uint16		1
29261	724C		ASCII string (1-150 characters)	Char		75
29336	7297	EventLogPushDownList[4]	EventID	Uint32		2
29338	7299		EventTime	Date		6
29344	729F		Number of Bytes (1-150)	Uint16		1

Modbus Register	Hex Modbus Register			TypeId	Units	Register Count
29345	72A0		ASCII string (1-150 characters)	Char		75
29420	72EB	EventLogPushDownList[5]	EventID	UInt32		2
29422	72ED		EventTime	Date		6
29428	72F3		Number of Bytes (1-150)	UInt16		1
29429	72F4		ASCII string (1-150 characters)	Char		75
29504	733F	EventLogPushDownList[6]	EventID	UInt32		2
29506	7341		EventTime	Date		6
29512	7347		Number of Bytes (1-150)	UInt16		1
29513	7348		ASCII string (1-150 characters)	Char		75
29588	7393	EventLogPushDownList[7]	EventID	UInt32		2
29590	7395		EventTime	Date		6
29596	739B		Number of Bytes (1-150)	UInt16		1
29597	739C		ASCII string (1-150 characters)	Char		75
29672	73E7	EventLogPushDownList[8]	EventID	UInt32		2
29674	73E9		EventTime	Date		6
29680	73EF		Number of Bytes (1-150)	UInt16		1
29681	73F0		ASCII string (1-150 characters)	Char		75
29756	743B	EventLogPushDownList[9]	EventID	UInt32		2
29758	743D		EventTime	Date		6
29764	7443		Number of Bytes (1-150)	UInt16		1
29765	7444		ASCII string (1-150 characters)	Char		75
29840	748F	EventLogPushDownList[10]	EventID	UInt32		2
29842	7491		EventTime	Date		6
29848	7497		Number of Bytes (1-150)	UInt16		1
29849	7498		ASCII string (1-150 characters)	Char		75
29924	74E3	EventLogPushDownList[11]	EventID	UInt32		2
29926	74E5		EventTime	Date		6
29932	74EB		Number of Bytes (1-150)	UInt16		1
29933	74EC		ASCII string (1-150 characters)	Char		75
30008	7537	EventLogPushDownList[12]	EventID	UInt32		2
30010	7539		EventTime	Date		6
30016	753F		Number of Bytes (1-150)	UInt16		1
30017	7540		ASCII string (1-150 characters)	Char		75
30092	758B	EventLogPushDownList[13]	EventID	UInt32		2
30094	758D		EventTime	Date		6
30100	7593		Number of Bytes (1-150)	UInt16		1
30101	7594		ASCII string (1-150 characters)	Char		75
30176	75DF	EventLogPushDownList[14]	EventID	UInt32		2
30178	75E1		EventTime	Date		6
30184	75E7		Number of Bytes (1-150)	UInt16		1

Modbus Register	Hex Modbus Register			Typeld	Units	Register Count
30185	75E8		ASCII string (1-150 characters)	Char		75
30260	7633	EventLogPushDownList[15]	EventID	Uint32		2
30262	7635		EventTime	Date		6
30268	763B		Number of Bytes (1-150)	Uint16		1
30269	763C		ASCII string (1-150 characters)	Char		75
30344	7687	EventLogPushDownList[16]	EventID	Uint32		2
30346	7689		EventTime	Date		6
30352	768F		Number of Bytes (1-150)	Uint16		1
30353	7690		ASCII string (1-150 characters)	Char		75
30428	76DB	EventLogPushDownList[17]	EventID	Uint32		2
30430	76DD		EventTime	Date		6
30436	76E3		Number of Bytes (1-150)	Uint16		1
30437	76E4		ASCII string (1-150 characters)	Char		75
30512	772F	EventLogPushDownList[18]	EventID	Uint32		2
30514	7731		EventTime	Date		6
30520	7737		Number of Bytes (1-150)	Uint16		1
30521	7738		ASCII string (1-150 characters)	Char		75
30596	7783	EventLogPushDownList[19]	EventID	Uint32		2
30598	7785		EventTime	Date		6
30604	778B		Number of Bytes (1-150)	Uint16		1
30605	778C		ASCII string (1-150 characters)	Char		75
30680	77D7					

9. Trend and Profile Query Register Map

Modbus Register	Hex Modbus Register			Typeld	Units	Register Count
26050	65C1	Query for Trend Data Trend	Channel (read/write) Write modbus reg value of measurement to fetch [decimal register number minus 1] (see table)	Uint16		1
26051	65C2		Interval (read/write) [seconds: e.g. 5minutes = 300seconds and 15 minutes = 900seconds, 60 minute = 3600seconds 10080]	Uint16		1

26052	65C3		Page (read/write) [page zero is the most recent data]	Uint16		1
26053	65C4		TimestampOfLatestValues (read only)	Date		6
26059	65CA		Pages (read only)	Uint16		1
26060	65CB		MinData [192 samples] (read only)	Float		384
26444	674B		MaxData [192 samples] (read only)	Float		384
26828	68CB		AvgData [192 samples] (read only)	Float		384
27212	6A4B	Query for Demand Profiles	Demand Channel (read/write) Write modbus reg value of measurement to fetch [decimal register number minus 1] (see table)	Uint16		1
27213	6A4C		Interval (read/write) [minutes: variable interval [default=15min], 1day=1440minutes,	Uint16		1
27214	6A4D		TimestampOfLatestValues (read only)	Date		6
27220	6A53		DemandData [up to 576 values] (read only)	Float		1152
28372	6ED3					

10. Latest Min/Max/Avg Register Map

The following registers are organized in groups. Each row represents 3 values, the latest minimum, the latest maximum, and the latest average.

Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
31000 7917						Time of last trend record	5 min	Timestamp	
31006	791d	31008	791f	31010	7921	PosSeqV	5 min	float	V
31012	7923	31014	7925	31016	7927	NegSeqV	5 min	float	V
31018	7929	31020	792b	31022	792d	ZeroSeqV	5 min	float	V
31024	792f	31026	7931	31028	7933	PosSeqI	5 min	float	A
31030	7935	31032	7937	31034	7939	NegSeqI	5 min	float	A
31036	793b	31038	793d	31040	793f	ZeroSeqI	5 min	float	A
31042	7941	31044	7943	31046	7945	PosSeqVxmr	5 min	float	V
31048	7947	31050	7949	31052	794b	NegSeqVxmr	5 min	float	V
31054	794d	31056	794f	31058	7951	ZeroSeqVxmr	5 min	float	V
31060	7953	31062	7955	31064	7957	Van200	5 min	float	V
31066	7959	31068	795b	31070	795d	Vbn200	5 min	float	V
31072	795f	31074	7961	31076	7963	Vcn200	5 min	float	V
31078	7965	31080	7967	31082	7969	Vlnavg200	5 min	float	V
31084	796b	31086	796d	31088	796f	Vng200	5 min	float	V
31090	7971	31092	7973	31094	7975	Vab200	5 min	float	V

MODBUS REGISTER MAP FOR POWER XPERT METER 4000/6000/8000



Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
31096	7977	31098	7979	31100	797b	Vbc200	5 min	float	V
31102	797d	31104	797f	31106	7981	Vca200	5 min	float	V
31108	7983	31110	7985	31112	7987	Vllavg200	5 min	float	V
31114	7989	31116	798b	31118	798d	Ia200	5 min	float	A
31120	798f	31122	7991	31124	7993	Ib200	5 min	float	A
31126	7995	31128	7997	31130	7999	Ic200	5 min	float	A
31132	799b	31134	799d	31136	799f	Iavg200	5 min	float	A
31138	79a1	31140	79a3	31142	79a5	In200	5 min	float	A
31144	79a7	31146	79a9	31148	79ab	Ig200	5 min	float	A
31150	79ad	31152	79af	31154	79b1	Vabxmr200	5 min	float	V
31156	79b3	31158	79b5	31160	79b7	Vbcxmr200	5 min	float	V
31162	79b9	31164	79bb	31166	79bd	Vcaxmr200	5 min	float	V
31168	79bf	31170	79c1	31172	79c3	Vllavgxmr200	5 min	float	V
31174	79c5	31176	79c7	31178	79c9	Fsys	5 min	float	Hz
31180	79cb	31182	79cd	31184	79cf	APFa	5 min	float	
31186	79d1	31188	79d3	31190	79d5	APFb	5 min	float	
31192	79d7	31194	79d9	31196	79db	APFc	5 min	float	
31198	79dd	31200	79df	31202	79e1	APFsys	5 min	float	
31204	79e3	31206	79e5	31208	79e7	DPFa	5 min	float	
31210	79e9	31212	79eb	31214	79ed	DPFb	5 min	float	
31216	79ef	31218	79f1	31220	79f3	DPFc	5 min	float	
31222	79f5	31224	79f7	31226	79f9	DPFsys	5 min	float	
31228	79fb	31230	79fd	31232	79ff	CFa	5 min	float	
31234	7a01	31236	7a03	31238	7a05	CFb	5 min	float	
31240	7a07	31242	7a09	31244	7a0b	CFc	5 min	float	
31246	7a0d	31248	7a0f	31250	7a11	CFsys	5 min	float	
31252	7a13	31254	7a15	31256	7a17	IFa	5 min	float	
31258	7a19	31260	7a1b	31262	7a1d	IFb	5 min	float	
31264	7a1f	31266	7a21	31268	7a23	IFc	5 min	float	
31270	7a25	31272	7a27	31274	7a29	IFsys	5 min	float	
31276	7a2b	31278	7a2d	31280	7a2f	FlickerPerceptVan	5 min	float	
31282	7a31	31284	7a33	31286	7a35	FlickerPerceptVbn	5 min	float	
31288	7a37	31290	7a39	31292	7a3b	FlickerPerceptVcn	5 min	float	
31294	7a3d	31296	7a3f	31298	7a41	FlickerPerceptVab	5 min	float	
31300	7a43	31302	7a45	31304	7a47	FlickerPerceptVbc	5 min	float	
31306	7a49	31308	7a4b	31310	7a4d	FlickerPerceptVca	5 min	float	
31312	7a4f	31314	7a51	31316	7a53	FlickerPerceptSys	5 min	float	
31318	7a55	31320	7a57	31322	7a59	Pa	5 min	float	W
31324	7a5b	31326	7a5d	31328	7a5f	Pb	5 min	float	W

Min Reg. (dec)	Min Reg. (hex)	Max Reg. (dec)	Max Reg. (hex)	Average Reg. (dec)	Average Reg. (hex)	Description	Interval	Type	Units
31330	7a61	31332	7a63	31334	7a65	Pc	5 min	float	W
31336	7a67	31338	7a69	31340	7a6b	Ptotal	5 min	float	W
31342	7a6d	31344	7a6f	31346	7a71	Qa	5 min	float	var
31348	7a73	31350	7a75	31352	7a77	Qb	5 min	float	var
31354	7a79	31356	7a7b	31358	7a7d	Qc	5 min	float	var
31360	7a7f	31362	7a81	31364	7a83	Qtotal	5 min	float	var
31366	7a85	31368	7a87	31370	7a89	Sa	5 min	float	VA
31372	7a8b	31374	7a8d	31376	7a8f	Sb	5 min	float	VA
31378	7a91	31380	7a93	31382	7a95	Sc	5 min	float	VA
31384	7a97	31386	7a99	31388	7a9b	Stotal	5 min	float	VA
31390	7a9d	31392	7a9f	31394	7aa1	KFa	5 min	float	
31396	7aa3	31398	7aa5	31400	7aa7	KFb	5 min	float	
31402	7aa9	31404	7aab	31406	7aad	KFc	5 min	float	
31408	7aaf	31410	7ab1	31412	7ab3	KFsys	5 min	float	
31414	7ab5	31416	7ab7	31418	7ab9	EvenHarmonicVan	5 min	float	V
31420	7abb	31422	7abd	31424	7abf	OddHarmonicVan	5 min	float	V
31426	7ac1	31428	7ac3	31430	7ac5	InterHarmonicVan	5 min	float	V
31432	7ac7	31434	7ac9	31436	7acb	TotalHarmonicVan	5 min	float	V
31438	7acd	31440	7acf	31442	7ad1	EvenHarmonicVbn	5 min	float	V
31444	7ad3	31446	7ad5	31448	7ad7	OddHarmonicVbn	5 min	float	V
31450	7ad9	31452	7adb	31454	7add	InterHarmonicVbn	5 min	float	V
31456	7adf	31458	7ae1	31460	7ae3	TotalHarmonicVbn	5 min	float	V
31462	7ae5	31464	7ae7	31466	7ae9	EvenHarmonicVcn	5 min	float	V
31468	7aeb	31470	7aed	31472	7aef	OddHarmonicVcn	5 min	float	V
31474	7af1	31476	7af3	31478	7af5	InterHarmonicVcn	5 min	float	V
31480	7af7	31482	7af9	31484	7afb	TotalHarmonicVcn	5 min	float	V
31486	7afd	31488	7aff	31490	7b01	EvenHarmonicVab	5 min	float	V
31492	7b03	31494	7b05	31496	7b07	OddHarmonicVab	5 min	float	V
31498	7b09	31500	7b0b	31502	7b0d	InterHarmonicVab	5 min	float	V
31504	7b0f	31506	7b11	31508	7b13	TotalHarmonicVab	5 min	float	V
31510	7b15	31512	7b17	31514	7b19	EvenHarmonicVbc	5 min	float	V
31516	7b1b	31518	7b1d	31520	7b1f	OddHarmonicVbc	5 min	float	V
31522	7b21	31524	7b23	31526	7b25	InterHarmonicVbc	5 min	float	V
31528	7b27	31530	7b29	31532	7b2b	TotalHarmonicVbc	5 min	float	V
31534	7b2d	31536	7b2f	31538	7b31	EvenHarmonicVca	5 min	float	V
31540	7b33	31542	7b35	31544	7b37	OddHarmonicVca	5 min	float	V
31546	7b39	31548	7b3b	31550	7b3d	InterHarmonicVca	5 min	float	V
31552	7b3f	31554	7b41	31556	7b43	TotalHarmonicVca	5 min	float	V

Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
31558	7b45	31560	7b47	31562	7b49	EvenHarmonicVabxmr	5 min	float	V
31564	7b4b	31566	7b4d	31568	7b4f	OddHarmonicVabxmr	5 min	float	V
31570	7b51	31572	7b53	31574	7b55	InterHarmonicVabxmr	5 min	float	V
31576	7b57	31578	7b59	31580	7b5b	TotalHarmonicVabxmr	5 min	float	V
31582	7b5d	31584	7b5f	31586	7b61	EvenHarmonicVbcxmr	5 min	float	V
31588	7b63	31590	7b65	31592	7b67	OddHarmonicVbcxmr	5 min	float	V
31594	7b69	31596	7b6b	31598	7b6d	InterHarmonicVbcxmr	5 min	float	V
31600	7b6f	31602	7b71	31604	7b73	TotalHarmonicVbcxmr	5 min	float	V
31606	7b75	31608	7b77	31610	7b79	EvenHarmonicVcaxmr	5 min	float	V
31612	7b7b	31614	7b7d	31616	7b7f	OddHarmonicVcaxmr	5 min	float	V
31618	7b81	31620	7b83	31622	7b85	InterHarmonicVcaxmr	5 min	float	V
31624	7b87	31626	7b89	31628	7b8b	TotalHarmonicVcaxmr	5 min	float	V
31630	7b8d	31632	7b8f	31634	7b91	EvenHarmonicIa	5 min	float	A
31636	7b93	31638	7b95	31640	7b97	OddHarmonicIa	5 min	float	A
31642	7b99	31644	7b9b	31646	7b9d	InterHarmonicIa	5 min	float	A
31648	7b9f	31650	7ba1	31652	7ba3	TotalHarmonicIa	5 min	float	A
31654	7ba5	31656	7ba7	31658	7ba9	EvenHarmonicIb	5 min	float	A
31660	7bab	31662	7bad	31664	7baf	OddHarmonicIb	5 min	float	A
31666	7bb1	31668	7bb3	31670	7bb5	InterHarmonicIb	5 min	float	A
31672	7bb7	31674	7bb9	31676	7bbb	TotalHarmonicIb	5 min	float	A
31678	7bbd	31680	7bbf	31682	7bc1	EvenHarmonicIc	5 min	float	A
31684	7bc3	31686	7bc5	31688	7bc7	OddHarmonicIc	5 min	float	A
31690	7bc9	31692	7bcb	31694	7bcd	InterHarmonicIc	5 min	float	A
31696	7bcf	31698	7bd1	31700	7bd3	TotalHarmonicIc	5 min	float	A
31702	7bd5	31704	7bd7	31706	7bd9	EvenHarmonicIn	5 min	float	A
31708	7bdb	31710	7bdd	31712	7bdf	OddHarmonicIn	5 min	float	A
31714	7be1	31716	7be3	31718	7be5	InterHarmonicIn	5 min	float	A
31720	7be7	31722	7be9	31724	7beb	TotalHarmonicIn	5 min	float	A
31726	7bed	31728	7bef	31730	7bf1	FundamentalVan	5 min	float	
31732	7bf3	31734	7bf5	31736	7bf7	FundamentalVbn	5 min	float	
31738	7bf9	31740	7bfb	31742	7bfd	FundamentalVcn	5 min	float	
31744	7bff	31746	7c01	31748	7c03	FundamentalVab	5 min	float	
31750	7c05	31752	7c07	31754	7c09	FundamentalVbc	5 min	float	
31756	7c0b	31758	7c0d	31760	7c0f	FundamentalVca	5 min	float	
31762	7c11	31764	7c13	31766	7c15	FundamentalVabxmr	5 min	float	
31768	7c17	31770	7c19	31772	7c1b	FundamentalVbcxmr	5 min	float	
31774	7c1d	31776	7c1f	31778	7c21	FundamentalVcaxmr	5 min	float	
31780	7c23	31782	7c25	31784	7c27	Fundamentalla	5 min	float	
31786	7c29	31788	7c2b	31790	7c2d	Fundamentallb	5 min	float	

	Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
31792	7c2f	31794	7c31	31796	7c33	FundamentalIc	5 min	float		
31798	7c35	31800	7c37	31802	7c39	FundamentalIn	5 min	float		
31804	7c3b	31806	7c3d	31808	7c3f	PstVan	5 min	float		
31810	7c41	31812	7c43	31814	7c45	PstVbn	5 min	float		
31816	7c47	31818	7c49	31820	7c4b	PstVcn	5 min	float		
31822	7c4d	31824	7c4f	31826	7c51	PstVab	5 min	float		
31828	7c53	31830	7c55	31832	7c57	PstVbc	5 min	float		
31834	7c59	31836	7c5b	31838	7c5d	PstVca	5 min	float		
31840	7c5f	31842	7c61	31844	7c63	PstSys	5 min	float		
31846	7c65	31848	7c67	31850	7c69	PltVan	5 min	float		
31852	7c6b	31854	7c6d	31856	7c6f	PltVbn	5 min	float		
31858	7c71	31860	7c73	31862	7c75	PltVcn	5 min	float		
31864	7c77	31866	7c79	31868	7c7b	PltVab	5 min	float		
31870	7c7d	31872	7c7f	31874	7c81	PltVbc	5 min	float		
31876	7c83	31878	7c85	31880	7c87	PltVca	5 min	float		
31882	7c89	31884	7c8b	31886	7c8d	PltVsys	5 min	float		
31888	7c8f	31890	7c91	31892	7c93	EvenHarmVanPct	5 min	float	ratio	
31894	7c95	31896	7c97	31898	7c99	OddHarmVanPct	5 min	float	ratio	
31900	7c9b	31902	7c9d	31904	7c9f	InterHarmVanPct	5 min	float	ratio	
31906	7ca1	31908	7ca3	31910	7ca5	TotalHarmVanPct	5 min	float	ratio	
31912	7ca7	31914	7ca9	31916	7cab	EvenHarmVbnPct	5 min	float	ratio	
31918	7cad	31920	7caf	31922	7cb1	OddHarmVbnPct	5 min	float	ratio	
31924	7cb3	31926	7cb5	31928	7cb7	InterHarmVbnPct	5 min	float	ratio	
31930	7cb9	31932	7cbb	31934	7cbd	TotalHarmVbnPct	5 min	float	ratio	
31936	7cbf	31938	7cc1	31940	7cc3	EvenHarmVcnPct	5 min	float	ratio	
31942	7cc5	31944	7cc7	31946	7cc9	OddHarmVcnPct	5 min	float	ratio	
31948	7ccb	31950	7ccd	31952	7ccf	InterHarmVcnPct	5 min	float	ratio	
31954	7cd1	31956	7cd3	31958	7cd5	TotalHarmVcnPct	5 min	float	ratio	
31960	7cd7	31962	7cd9	31964	7cdb	EvenHarmVabPct	5 min	float	ratio	
31966	7cdd	31968	7cdf	31970	7ce1	OddHarmVabPct	5 min	float	ratio	
31972	7ce3	31974	7ce5	31976	7ce7	InterHarmVabPct	5 min	float	ratio	
31978	7ce9	31980	7ceb	31982	7ced	TotalHarmVabPct	5 min	float	ratio	
31984	7cef	31986	7cf1	31988	7cf3	EvenHarmVbcPct	5 min	float	ratio	
31990	7cf5	31992	7cf7	31994	7cf9	OddHarmVbcPct	5 min	float	ratio	
31996	7cfb	31998	7cfd	32000	7cff	InterHarmVbcPct	5 min	float	ratio	
32002	7d01	32004	7d03	32006	7d05	TotalHarmVbcPct	5 min	float	ratio	
32008	7d07	32010	7d09	32012	7d0b	EvenHarmVcaPct	5 min	float	ratio	
32014	7d0d	32016	7d0f	32018	7d11	OddHarmVcaPct	5 min	float	ratio	

Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
32020	7d13	32022	7d15	32024	7d17	InterHarmVcaPct	5 min	float	ratio
32026	7d19	32028	7d1b	32030	7d1d	TotalHarmVcaPct	5 min	float	ratio
32032	7d1f	32034	7d21	32036	7d23	EvenHarmVabxmrPct	5 min	float	ratio
32038	7d25	32040	7d27	32042	7d29	OddHarmVabxmrPct	5 min	float	ratio
32044	7d2b	32046	7d2d	32048	7d2f	InterHarmVabxmrPct	5 min	float	ratio
32050	7d31	32052	7d33	32054	7d35	TotalHarmVabxmrPct	5 min	float	ratio
32056	7d37	32058	7d39	32060	7d3b	EvenHarmVbcxmrPct	5 min	float	ratio
32062	7d3d	32064	7d3f	32066	7d41	OddHarmVbcxmrPct	5 min	float	ratio
32068	7d43	32070	7d45	32072	7d47	InterHarmVbcxmrPct	5 min	float	ratio
32074	7d49	32076	7d4b	32078	7d4d	TotalHarmVbcxmrPct	5 min	float	ratio
32080	7d4f	32082	7d51	32084	7d53	EvenHarmVcaxmrPct	5 min	float	ratio
32086	7d55	32088	7d57	32090	7d59	OddHarmVcaxmrPct	5 min	float	ratio
32092	7d5b	32094	7d5d	32096	7d5f	InterHarmVcaxmrPct	5 min	float	ratio
32098	7d61	32100	7d63	32102	7d65	TotalHarmVcaxmrPct	5 min	float	ratio
32104	7d67	32106	7d69	32108	7d6b	EvenHarmIaPct	5 min	float	ratio
32110	7d6d	32112	7d6f	32114	7d71	OddHarmIaPct	5 min	float	ratio
32116	7d73	32118	7d75	32120	7d77	InterHarmIaPct	5 min	float	ratio
32122	7d79	32124	7d7b	32126	7d7d	TotalHarmIaPct	5 min	float	ratio
32128	7d7f	32130	7d81	32132	7d83	EvenHarmIbPct	5 min	float	ratio
32134	7d85	32136	7d87	32138	7d89	OddHarmIbPct	5 min	float	ratio
32140	7d8b	32142	7d8d	32144	7d8f	InterHarmIbPct	5 min	float	ratio
32146	7d91	32148	7d93	32150	7d95	TotalHarmIbPct	5 min	float	ratio
32152	7d97	32154	7d99	32156	7d9b	EvenHarmIcPct	5 min	float	ratio
32158	7d9d	32160	7d9f	32162	7da1	OddHarmIcPct	5 min	float	ratio
32164	7da3	32166	7da5	32168	7da7	InterHarmIcPct	5 min	float	ratio
32170	7da9	32172	7dab	32174	7dad	TotalHarmIcPct	5 min	float	ratio
32176	7daf	32178	7db1	32180	7db3	EvenHarmInPct	5 min	float	ratio
32182	7db5	32184	7db7	32186	7db9	OddHarmInPct	5 min	float	ratio
32188	7dbb	32190	7dbd	32192	7dbf	InterHarmInPct	5 min	float	ratio
32194	7dc1	32196	7dc3	32198	7dc5	TotalHarmInPct	5 min	float	ratio
33000	88b7					Time of last Trend	15 min	Timestamp	
33006	80ed	33008	80ef	33010	80f1	PosSeqV	15 min	float	V
33012	80f3	33014	80f5	33016	80f7	NegSeqV	15 min	float	V
33018	80f9	33020	80fb	33022	80fd	ZeroSeqV	15 min	float	V
33024	80ff	33026	8101	33028	8103	PosSeqI	15 min	float	A
33030	8105	33032	8107	33034	8109	NegSeqI	15 min	float	A
33036	810b	33038	810d	33040	810f	ZeroSeqI	15 min	float	A
33042	8111	33044	8113	33046	8115	PosSeqVxmr	15 min	float	V
33048	8117	33050	8119	33052	811b	NegSeqVxmr	15 min	float	V

Min Reg. (dec)	Min Reg. (hex)	Max Reg. (dec)	Max Reg. (hex)	Average Reg. (dec)	Average Reg. (hex)	Description	Interval	Type	Units
33054	811d	33056	811f	33058	8121	ZeroSeqVxmr	15 min	float	V
33060	8123	33062	8125	33064	8127	Van200	15 min	float	V
33066	8129	33068	812b	33070	812d	Vbn200	15 min	float	V
33072	812f	33074	8131	33076	8133	Vcn200	15 min	float	V
33078	8135	33080	8137	33082	8139	Vlnavg200	15 min	float	V
33084	813b	33086	813d	33088	813f	Vng200	15 min	float	V
33090	8141	33092	8143	33094	8145	Vab200	15 min	float	V
33096	8147	33098	8149	33100	814b	Vbc200	15 min	float	V
33102	814d	33104	814f	33106	8151	Vca200	15 min	float	V
33108	8153	33110	8155	33112	8157	Vllavg200	15 min	float	V
33114	8159	33116	815b	33118	815d	Ia200	15 min	float	A
33120	815f	33122	8161	33124	8163	Ib200	15 min	float	A
33126	8165	33128	8167	33130	8169	Ic200	15 min	float	A
33132	816b	33134	816d	33136	816f	Iavg200	15 min	float	A
33138	8171	33140	8173	33142	8175	In200	15 min	float	A
33144	8177	33146	8179	33148	817b	Ig200	15 min	float	A
33150	817d	33152	817f	33154	8181	Vabxmr200	15 min	float	V
33156	8183	33158	8185	33160	8187	Vbcxmr200	15 min	float	V
33162	8189	33164	818b	33166	818d	Vcaxmr200	15 min	float	V
33168	818f	33170	8191	33172	8193	Vllavgxmr200	15 min	float	V
33174	8195	33176	8197	33178	8199	Fsys	15 min	float	Hz
33180	819b	33182	819d	33184	819f	APFa	15 min	float	
33186	81a1	33188	81a3	33190	81a5	APFb	15 min	float	
33192	81a7	33194	81a9	33196	81ab	APFc	15 min	float	
33198	81ad	33200	81af	33202	81b1	APFsys	15 min	float	
33204	81b3	33206	81b5	33208	81b7	DPFa	15 min	float	
33210	81b9	33212	81bb	33214	81bd	DPFb	15 min	float	
33216	81bf	33218	81c1	33220	81c3	DPFc	15 min	float	
33222	81c5	33224	81c7	33226	81c9	DPFsys	15 min	float	
33228	81cb	33230	81cd	33232	81cf	CFa	15 min	float	
33234	81d1	33236	81d3	33238	81d5	CFb	15 min	float	
33240	81d7	33242	81d9	33244	81db	CFc	15 min	float	
33246	81dd	33248	81df	33250	81e1	CFsys	15 min	float	
33252	81e3	33254	81e5	33256	81e7	IFa	15 min	float	
33258	81e9	33260	81eb	33262	81ed	IFb	15 min	float	
33264	81ef	33266	81f1	33268	81f3	IFc	15 min	float	
33270	81f5	33272	81f7	33274	81f9	IFsys	15 min	float	
33276	81fb	33278	81fd	33280	81ff	FlickerPerceptVan	15 min	float	

Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
33282	8201	33284	8203	33286	8205	FlickerPerceptVbn	15 min	float	
33288	8207	33290	8209	33292	820b	FlickerPerceptVcn	15 min	float	
33294	820d	33296	820f	33298	8211	FlickerPerceptVab	15 min	float	
33300	8213	33302	8215	33304	8217	FlickerPerceptVbc	15 min	float	
33306	8219	33308	821b	33310	821d	FlickerPerceptVca	15 min	float	
33312	821f	33314	8221	33316	8223	FlickerPerceptSys	15 min	float	
33318	8225	33320	8227	33322	8229	Pa	15 min	float	W
33324	822b	33326	822d	33328	822f	Pb	15 min	float	W
33330	8231	33332	8233	33334	8235	Pc	15 min	float	W
33336	8237	33338	8239	33340	823b	Ptotal	15 min	float	W
33342	823d	33344	823f	33346	8241	Qa	15 min	float	var
33348	8243	33350	8245	33352	8247	Qb	15 min	float	var
33354	8249	33356	824b	33358	824d	Qc	15 min	float	var
33360	824f	33362	8251	33364	8253	Qtotal	15 min	float	var
33366	8255	33368	8257	33370	8259	Sa	15 min	float	VA
33372	825b	33374	825d	33376	825f	Sb	15 min	float	VA
33378	8261	33380	8263	33382	8265	Sc	15 min	float	VA
33384	8267	33386	8269	33388	826b	Stotal	15 min	float	VA
33390	826d	33392	826f	33394	8271	KFa	15 min	float	
33396	8273	33398	8275	33400	8277	KFb	15 min	float	
33402	8279	33404	827b	33406	827d	KFc	15 min	float	
33408	827f	33410	8281	33412	8283	KFsys	15 min	float	
33414	8285	33416	8287	33418	8289	EvenHarmonicVan	15 min	float	V
33420	828b	33422	828d	33424	828f	OddHarmonicVan	15 min	float	V
33426	8291	33428	8293	33430	8295	InterHarmonicVan	15 min	float	V
33432	8297	33434	8299	33436	829b	TotalHarmonicVan	15 min	float	V
33438	829d	33440	829f	33442	82a1	EvenHarmonicVbn	15 min	float	V
33444	82a3	33446	82a5	33448	82a7	OddHarmonicVbn	15 min	float	V
33450	82a9	33452	82ab	33454	82ad	InterHarmonicVbn	15 min	float	V
33456	82af	33458	82b1	33460	82b3	TotalHarmonicVbn	15 min	float	V
33462	82b5	33464	82b7	33466	82b9	EvenHarmonicVcn	15 min	float	V
33468	82bb	33470	82bd	33472	82bf	OddHarmonicVcn	15 min	float	V
33474	82c1	33476	82c3	33478	82c5	InterHarmonicVcn	15 min	float	V
33480	82c7	33482	82c9	33484	82cb	TotalHarmonicVcn	15 min	float	V
33486	82cd	33488	82cf	33490	82d1	EvenHarmonicVab	15 min	float	V
33492	82d3	33494	82d5	33496	82d7	OddHarmonicVab	15 min	float	V
33498	82d9	33500	82db	33502	82dd	InterHarmonicVab	15 min	float	V
33504	82df	33506	82e1	33508	82e3	TotalHarmonicVab	15 min	float	V
33510	82e5	33512	82e7	33514	82e9	EvenHarmonicVbc	15 min	float	V

Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
33516	82eb	33518	82ed	33520	82ef	OddHarmonicVbc	15 min	float	V
33522	82f1	33524	82f3	33526	82f5	InterHarmonicVbc	15 min	float	V
33528	82f7	33530	82f9	33532	82fb	TotalHarmonicVbc	15 min	float	V
33534	82fd	33536	82ff	33538	8301	EvenHarmonicVca	15 min	float	V
33540	8303	33542	8305	33544	8307	OddHarmonicVca	15 min	float	V
33546	8309	33548	830b	33550	830d	InterHarmonicVca	15 min	float	V
33552	830f	33554	8311	33556	8313	TotalHarmonicVca	15 min	float	V
33558	8315	33560	8317	33562	8319	EvenHarmonicVabxmr	15 min	float	V
33564	831b	33566	831d	33568	831f	OddHarmonicVabxmr	15 min	float	V
33570	8321	33572	8323	33574	8325	InterHarmonicVabxmr	15 min	float	V
33576	8327	33578	8329	33580	832b	TotalHarmonicVabxmr	15 min	float	V
33582	832d	33584	832f	33586	8331	EvenHarmonicVbcxmr	15 min	float	V
33588	8333	33590	8335	33592	8337	OddHarmonicVbcxmr	15 min	float	V
33594	8339	33596	833b	33598	833d	InterHarmonicVbcxmr	15 min	float	V
33600	833f	33602	8341	33604	8343	TotalHarmonicVbcxmr	15 min	float	V
33606	8345	33608	8347	33610	8349	EvenHarmonicVcaxmr	15 min	float	V
33612	834b	33614	834d	33616	834f	OddHarmonicVcaxmr	15 min	float	V
33618	8351	33620	8353	33622	8355	InterHarmonicVcaxmr	15 min	float	V
33624	8357	33626	8359	33628	835b	TotalHarmonicVcaxmr	15 min	float	V
33630	835d	33632	835f	33634	8361	EvenHarmonicIa	15 min	float	A
33636	8363	33638	8365	33640	8367	OddHarmonicIa	15 min	float	A
33642	8369	33644	836b	33646	836d	InterHarmonicIa	15 min	float	A
33648	836f	33650	8371	33652	8373	TotalHarmonicIa	15 min	float	A
33654	8375	33656	8377	33658	8379	EvenHarmonicIb	15 min	float	A
33660	837b	33662	837d	33664	837f	OddHarmonicIb	15 min	float	A
33666	8381	33668	8383	33670	8385	InterHarmonicIb	15 min	float	A
33672	8387	33674	8389	33676	838b	TotalHarmonicIb	15 min	float	A
33678	838d	33680	838f	33682	8391	EvenHarmonicIc	15 min	float	A
33684	8393	33686	8395	33688	8397	OddHarmonicIc	15 min	float	A
33690	8399	33692	839b	33694	839d	InterHarmonicIc	15 min	float	A
33696	839f	33698	83a1	33700	83a3	TotalHarmonicIc	15 min	float	A
33702	83a5	33704	83a7	33706	83a9	EvenHarmonicIn	15 min	float	A
33708	83ab	33710	83ad	33712	83af	OddHarmonicIn	15 min	float	A
33714	83b1	33716	83b3	33718	83b5	InterHarmonicIn	15 min	float	A
33720	83b7	33722	83b9	33724	83bb	TotalHarmonicIn	15 min	float	A
33726	83bd	33728	83bf	33730	83c1	FundamentalVan	15 min	float	
33732	83c3	33734	83c5	33736	83c7	FundamentalVbn	15 min	float	
33738	83c9	33740	83cb	33742	83cd	FundamentalVcn	15 min	float	
33744	83cf	33746	83d1	33748	83d3	FundamentalVab	15 min	float	

Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
33750	83d5	33752	83d7	33754	83d9	FundamentalVbc	15 min	float	
33756	83db	33758	83dd	33760	83df	FundamentalVca	15 min	float	
33762	83e1	33764	83e3	33766	83e5	FundamentalVabxmr	15 min	float	
33768	83e7	33770	83e9	33772	83eb	FundamentalVbcxmr	15 min	float	
33774	83ed	33776	83ef	33778	83f1	FundamentalVcaxmr	15 min	float	
33780	83f3	33782	83f5	33784	83f7	Fundamentalla	15 min	float	
33786	83f9	33788	83fb	33790	83fd	Fundamentallb	15 min	float	
33792	83ff	33794	8401	33796	8403	Fundamentallc	15 min	float	
33798	8405	33800	8407	33802	8409	Fundamentalln	15 min	float	
33804	840b	33806	840d	33808	840f	PstVan	15 min	float	
33810	8411	33812	8413	33814	8415	PstVbn	15 min	float	
33816	8417	33818	8419	33820	841b	PstVcn	15 min	float	
33822	841d	33824	841f	33826	8421	PstVab	15 min	float	
33828	8423	33830	8425	33832	8427	PstVbc	15 min	float	
33834	8429	33836	842b	33838	842d	PstVca	15 min	float	
33840	842f	33842	8431	33844	8433	PstSys	15 min	float	
33846	8435	33848	8437	33850	8439	PltVan	15 min	float	
33852	843b	33854	843d	33856	843f	PltVbn	15 min	float	
33858	8441	33860	8443	33862	8445	PltVcn	15 min	float	
33864	8447	33866	8449	33868	844b	PltVab	15 min	float	
33870	844d	33872	844f	33874	8451	PltVbc	15 min	float	
33876	8453	33878	8455	33880	8457	PltVca	15 min	float	
33882	8459	33884	845b	33886	845d	PltVsys	15 min	float	
33888	845f	33890	8461	33892	8463	EvenHarmVanPct	15 min	float	ratio
33894	8465	33896	8467	33898	8469	OddHarmVanPct	15 min	float	ratio
33900	846b	33902	846d	33904	846f	InterHarmVanPct	15 min	float	ratio
33906	8471	33908	8473	33910	8475	TotalHarmVanPct	15 min	float	ratio
33912	8477	33914	8479	33916	847b	EvenHarmVbnPct	15 min	float	ratio
33918	847d	33920	847f	33922	8481	OddHarmVbnPct	15 min	float	ratio
33924	8483	33926	8485	33928	8487	InterHarmVbnPct	15 min	float	ratio
33930	8489	33932	848b	33934	848d	TotalHarmVbnPct	15 min	float	ratio
33936	848f	33938	8491	33940	8493	EvenHarmVcnPct	15 min	float	ratio
33942	8495	33944	8497	33946	8499	OddHarmVcnPct	15 min	float	ratio
33948	849b	33950	849d	33952	849f	InterHarmVcnPct	15 min	float	ratio
33954	84a1	33956	84a3	33958	84a5	TotalHarmVcnPct	15 min	float	ratio
33960	84a7	33962	84a9	33964	84ab	EvenHarmVabPct	15 min	float	ratio
33966	84ad	33968	84af	33970	84b1	OddHarmVabPct	15 min	float	ratio
33972	84b3	33974	84b5	33976	84b7	InterHarmVabPct	15 min	float	ratio
33978	84b9	33980	84bb	33982	84bd	TotalHarmVabPct	15 min	float	ratio

Min Reg (dec)	Min Reg (hex)	Max Reg (dec)	Max Reg (hex)	Average Reg (dec)	Average Reg (hex)	Description	Interval	Type	Units
33984	84bf	33986	84c1	33988	84c3	EvenHarmVbcPct	15 min	float	ratio
33990	84c5	33992	84c7	33994	84c9	OddHarmVbcPct	15 min	float	ratio
33996	84cb	33998	84cd	34000	84cf	InterHarmVbcPct	15 min	float	ratio
34002	84d1	34004	84d3	34006	84d5	TotalHarmVbcPct	15 min	float	ratio
34008	84d7	34010	84d9	34012	84db	EvenHarmVcaPct	15 min	float	ratio
34014	84dd	34016	84df	34018	84e1	OddHarmVcaPct	15 min	float	ratio
34020	84e3	34022	84e5	34024	84e7	InterHarmVcaPct	15 min	float	ratio
34026	84e9	34028	84eb	34030	84ed	TotalHarmVcaPct	15 min	float	ratio
34032	84ef	34034	84f1	34036	84f3	EvenHarmVabxmrPct	15 min	float	ratio
34038	84f5	34040	84f7	34042	84f9	OddHarmVabxmrPct	15 min	float	ratio
34044	84fb	34046	84fd	34048	84ff	InterHarmVabxmrPct	15 min	float	ratio
34050	8501	34052	8503	34054	8505	TotalHarmVabxmrPct	15 min	float	ratio
34056	8507	34058	8509	34060	850b	EvenHarmVbcxmrPct	15 min	float	ratio
34062	850d	34064	850f	34066	8511	OddHarmVbcxmrPct	15 min	float	ratio
34068	8513	34070	8515	34072	8517	InterHarmVbcxmrPct	15 min	float	ratio
34074	8519	34076	851b	34078	851d	TotalHarmVbcxmrPct	15 min	float	ratio
34080	851f	34082	8521	34084	8523	EvenHarmVcaxmrPct	15 min	float	ratio
34086	8525	34088	8527	34090	8529	OddHarmVcaxmrPct	15 min	float	ratio
34092	852b	34094	852d	34096	852f	InterHarmVcaxmrPct	15 min	float	ratio
34098	8531	34100	8533	34102	8535	TotalHarmVcaxmrPct	15 min	float	ratio
34104	8537	34106	8539	34108	853b	EvenHarmIaPct	15 min	float	ratio
34110	853d	34112	853f	34114	8541	OddHarmIaPct	15 min	float	ratio
34116	8543	34118	8545	34120	8547	InterHarmIaPct	15 min	float	ratio
34122	8549	34124	854b	34126	854d	TotalHarmIaPct	15 min	float	ratio
34128	854f	34130	8551	34132	8553	EvenHarmIbPct	15 min	float	ratio
34134	8555	34136	8557	34138	8559	OddHarmIbPct	15 min	float	ratio
34140	855b	34142	855d	34144	855f	InterHarmIbPct	15 min	float	ratio
34146	8561	34148	8563	34150	8565	TotalHarmIbPct	15 min	float	ratio
34152	8567	34154	8569	34156	856b	EvenHarmIcPct	15 min	float	ratio
34158	856d	34160	856f	34162	8571	OddHarmIcPct	15 min	float	ratio
34164	8573	34166	8575	34168	8577	InterHarmIcPct	15 min	float	ratio
34170	8579	34172	857b	34174	857d	TotalHarmIcPct	15 min	float	ratio
34176	857f	34178	8581	34180	8583	EvenHarmInPct	15 min	float	ratio
34182	8585	34184	8587	34186	8589	OddHarmInPct	15 min	float	ratio
34188	858b	34190	858d	34192	858f	InterHarmInPct	15 min	float	ratio
34194	8591	34196	8593	34198	8595	TotalHarmInPct	15 min	float	ratio

11. Latest Demand Profile Register Map

The following registers are organized in groups. Each row represents the latest energy demand profile value. The interval of the data is dictated by the configurable demand profile interval available in the meter configuration.

Modbus Register	Hex Modbus Register	Description	Interval	Type	Units
35000	88b8	Timestamp of most recent demand	configurable	Timestamp	
35006	88bd	DemandIavg200RateE	configurable	float32_t	A
35008	88bf	DemandPFwdRateE	configurable	float32_t	W
35010	88c1	DemandPRevRateE	configurable	float32_t	W
35012	88c3	DemandPNetRateE	configurable	float32_t	W
35014	88c5	DemandPSumRateE	configurable	float32_t	W
35016	88c7	DemandQFwdRateE	configurable	float32_t	var
35018	88c9	DemandQRevRateE	configurable	float32_t	var
35020	88cb	DemandQNetRateE	configurable	float32_t	var
35022	88cd	DemandQSumRateE	configurable	float32_t	var
35024	88cf	DemandSRateE	configurable	float32_t	VA
35026	88d1	DemandCurrentMonthIavg200RateE-Peak	configurable	float32_t	A
35028	88d3	DemandCurrentMonthPFwdRateE-Peak	configurable	float32_t	W
35030	88d5	DemandCurrentMonthPNetRateE-Peak	configurable	float32_t	W
35032	88d7	DemandCurrentMonthPRevRateE-Peak	configurable	float32_t	W
35034	88d9	DemandCurrentMonthPSumRateE-Peak	configurable	float32_t	W
35036	88db	DemandCurrentMonthQFwdRateE-Peak	configurable	float32_t	var
35038	88dd	DemandCurrentMonthQNetRateE-Peak	configurable	float32_t	var
35040	88df	DemandCurrentMonthQRevRateE-Peak	configurable	float32_t	var
35042	88e1	DemandCurrentMonthQSumRateE-Peak	configurable	float32_t	var
35044	88e3	DemandCurrentMonthSRateEPeak	configurable	float32_t	VA
35046	88e5	DemandCurrentIavg200RateEPeak	configurable	float32_t	A
35048	88e7	DemandCurrentPFwdRateEPeak	configurable	float32_t	W
35050	88e9	DemandCurrentPNetRateEPeak	configurable	float32_t	W
35052	88eb	DemandCurrentPRevRateEPeak	configurable	float32_t	W
35054	88ed	DemandCurrentPSumRateEPeak	configurable	float32_t	W
35056	88ef	DemandCurrentQFwdRateEPeak	configurable	float32_t	var

Modbus Register	Hex Modbus Register	Description	Interval	Type	Units
35058	88f1	DemandCurrentQNetRateEPeak	configurable	float32_t	var
35060	88f3	DemandCurrentQRevRateEPeak	configurable	float32_t	var
35062	88f5	DemandCurrentQSumRateEPeak	configurable	float32_t	var
35064	88f7	DemandCurrentSRateEPeak	configurable	float32_t	VA
35066	88f9	AccCurrentITotalRateTotal	configurable	float32_t	Ah
35068	88fb	AccCurrentPForwardRateTotal	configurable	float32_t	Wh
35070	88fd	AccCurrentPNetRateTotal	configurable	float32_t	Wh
35072	88ff	AccCurrentPReverseRateTotal	configurable	float32_t	Wh
35074	8901	AccCurrentPTotalRateTotal	configurable	float32_t	Wh
35076	8903	AccCurrentQFwdRateTotal	configurable	float32_t	varh
35078	8905	AccCurrentQNetRateTotal	configurable	float32_t	varh
35080	8907	AccCurrentQRevRateTotal	configurable	float32_t	varh
35082	8909	AccCurrentQTotalRateTotal	configurable	float32_t	varh
35084	890b	AccCurrentSTotalRateTotal	configurable	float32_t	VAh
35086	890d	DI_CounterDemand_One	configurable	float32_t	
35088	890f	DI_CounterDemand_Two	configurable	float32_t	
35090	8911	DI_CounterDemand_Three	configurable	float32_t	
35092	8913	DI_CounterDemand_Four	configurable	float32_t	
35094	8915	DI_CounterDemand_Five	configurable	float32_t	
35096	8917	DI_CounterDemand_Six	configurable	float32_t	
35098	8919	DI_CounterDemand_Seven	configurable	float32_t	
35100	891b	DI_CounterDemand_Eight	configurable	float32_t	

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