APPENDIX D—Register List

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
System Setup & Status							
Product & Features							
30	Meter Name	20	UTF8	RWC	Y	---	
50	Meter Model	20	UTF8	RWC	Y	---	
70	Manufacturer	20	UTF8	RWC	Y	---	
90	Product ID Number	1	INT16U	RWC	Y	---	PM5350 = 15234
Manufacturing Data							
Meter							
130	Serial Number	2	INT32U	R	Y	---	
132	Date of Manufacture	4	DATETIME	R	Y	---	
136	Hardware Revision	5	UTF8	R	Y	---	
Firmware Versions							
Operating System							
1637	Present Firmware Version (DLF Format) X.Y.T	1	INT16U	R	Y	---	
1642	Previous Firmware Version (DLF Format) X.Y.T	1	INT16U	R	Y	---	
1647	Date/Time of Last Firmware Download	4	DATETIME	R	Y	---	
Reset							
1669	Present Firmware Version (DLF Format) X.Y.T	1	INT16U	R	Y	---	
Language							
1701	Present Firmware Version (DLF Format) X.Y.T	1	INT16U	R	Y	---	
Meter Resets							
1824	Last Unit Restart DateTime	4	DATETIME	R	Y	---	
1828	Number of Metering System Restarts	1	INT16U	R	Y	---	
1829	Number of Control Power Failures	1	INT16U	R	Y	---	
1830	Date/Time of Last Control Power Failure	4	DATETIME	R	Y	---	
1834	Duration of Last Control Power Failure	2	INT32U	R	Y	seconds	
1836	Cause of Last Meter Reset	1	INT16U	R	Y	---	0 = Unknown 1 = Reset command 2 = Power failure
Timekeeping							
Present Date & Time (7 register format)							
1837	Year	1	INT16U	R	N	year	
1838	Month	1	INT16U	R	N	month	
1839	Day	1	INT16U	R	N	days	
1840	Hour	1	INT16U	R	N	hours	
1841	Minute	1	INT16U	R	N	minutes	
1842	Second	1	INT16U	R	N	seconds	
1843	Millisecond	1	INT16U	R	N	msec	
Present Date & Time (4 register format)							
1845	Year	1	INT16U	R	N	---	
1846	Month & Day	1	INT16U	R	N	---	
1847	Hour & Minute	1	INT16U	R	N	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
1848	Milliseconds	1	INT16U	R	N	---	
Time Management Setup							
1850	Time Zone Offset From GMT	1	INT16U	RWC	Y	---	
1851	GMT or Local Date/Time Selection	1	INT16U	RWC	Y	---	0 = GMT 1 = Local Date/Time
Security							
Revenue Security							
1920	Revenue Security Switch Status	1	INT16U	R	Y	---	0 = disabled 1 = enabled
1921	Revenue Security Status	1	INT16U	R	Y	---	0 = inactive 1= active
1922	Date/Time of Last Revenue Security State Change	4	DATETIME	R	Y	---	
Meter Setup & Status							
Miscellaneous Control & Status							
2002	Active Load Timer	2	INT32U	R	Y	seconds	Increments when average current exceeds the Active Load Timer Setpoint.
2004	Meter Operation Timer	2	INT32U	R	Y	seconds	
Metering Setup							
Power System							
2014	Number of Phases	1	INT16U	RWC	Y	---	
2015	Number of Wires	1	INT16U	RWC	Y	---	
2016	Power System Configuration	1	INT16U	RWC	Y	---	0 = 1ph, 2w, LN 1 = 1ph, 2w, LL 2 = 1ph, 3w, LL with N 3 = 3ph, 3w, Delta, Ungrounded 4 = 3ph, 3w, Delta, Corner Grounded 5 = 3ph, 3w, Wye, Ungrounded 6 = 3ph, 3w, Wye Grounded 7 = 3ph, 3w, Wye, Resistance Grounded 8 = 3ph, 4w, Open Delta, Center-Tapped 9 = 3ph, 4w, Delta, Center-Tapped 10 = 3ph, 4w, Wye, Ungrounded 11 = 3ph, 4w, Wye Grounded 12 = 3ph, 4w, Wye, Resistance Grounded 13 = Multiple 1ph, 2w, LN
2017	Nominal Frequency	1	INT16U	RWC	Y	Hz	
2018	Nominal Voltage	2	FLOAT32	RWC	Y	V	
2020	Nominal Current	2	FLOAT32	RWC	Y	A	
2022	Nominal Power Factor	2	PF32	RWC	Y	---	
2024	Normal Phase Rotation	1	INT16U	RWC	Y	---	
Instrument Transformers							
2025	Number VTs	1	INT16U	RWC	Y	---	
2026	VT Primary	2	FLOAT32	RWC	Y	V	
2028	VT Secondary	1	INT16U	RWC	Y	V	
2029	Number CTs	1	INT16U	RWC	Y	---	
2030	CT Primary	1	INT16U	RWC	Y	A	
2031	CT Secondary	1	INT16U	RWC	Y	A	
2034	CT Location for 1 CT Metering	1	INT16U	RWC	Y	---	1 = Phase A, 2 = Phase B 3 = Phase C
2035	VT Location for 1 VT Metering	1	INT16U	RWC	Y	---	1 = Phase A 2 = Phase B 3 = Phase C

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Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
2036	VT Connection Type	1	INT16U	RWC	Y	---	0 = Direct Connect 1 = Delta (2 VT) 2 = Wye (3 VT) 3 = L-N (1 VT) 4 = L-L (1 VT) 5 = L-L W/N (2 VT)
Operating Modes							
2048	Peak Current Demand Over Last Year	2	FLOAT32	RWC	Y	A	Entered by the user for use in calculation of Total Demand Distortion. 0 = Calculation performed using peak demand of 3-phase average current.
2050	Active Load Timer Setpoint	2	FLOAT32	RWC	Y	A	
Energy Pulse Output Setup							
Alarm / Energy LED Mode							
2126	Alarm / Energy LED Mode	1	INT16U	RWC	Y	---	0 = Disable 1 = Active Alarm (default) 2 = Energy
Energy Pulse Output Channel 01							
2130	Energy Channel	1	INT16U	RWC	Y	---	0 = Not Used 1 = Active Energy Delivered (Into Load) 2 = Active Energy Received (Out of Load) 3 = Active Energy Delivered + Received 4 = Reactive Energy Delivered 5 = Reactive Energy Received 6 = Reactive Energy Delivered + Received 7 = Apparent Energy Delivered 8 = Apparent Energy Received 9 = Apparent Energy Delivered + Received
2131	Digital Output Association	1	INT16U	RWC	Y	---	0 = No association 1 - 2 = Digital Output 99 = LED
2132	Pulse Weight	2	FLOAT32	RWC	Y	kWh, kVAh, kVAh	
Meter Data (Basic)							
1s Metering (50/60 Cycles)							
Current							
3000	Current A	2	FLOAT32	R	N	A	
3002	Current B	2	FLOAT32	R	N	A	
3004	Current C	2	FLOAT32	R	N	A	
3006	Current N	2	FLOAT32	R	N	A	
3008	Current G	2	FLOAT32	R	N	A	
3010	Current Avg	2	FLOAT32	R	N	A	
Current Unbalance							
3012	Current Unbalance A	2	FLOAT32	R	N	%	
3014	Current Unbalance B	2	FLOAT32	R	N	%	
3016	Current Unbalance C	2	FLOAT32	R	N	%	
3018	Current Unbalance Worst	2	FLOAT32	R	N	%	
Voltage							
3020	Voltage A-B	2	FLOAT32	R	N	V	
3022	Voltage B-C	2	FLOAT32	R	N	V	
3024	Voltage C-A	2	FLOAT32	R	N	V	
3026	Voltage L-L Avg	2	FLOAT32	R	N	V	
3028	Voltage A-N	2	FLOAT32	R	N	V	
3030	Voltage B-N	2	FLOAT32	R	N	V	
3032	Voltage C-N	2	FLOAT32	R	N	V	
3036	Voltage L-N Avg	2	FLOAT32	R	N	V	

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Reg	Name	Size	Type	Access	NV	Units	Notes
Voltage Unbalance							
3038	Voltage Unbalance A-B	2	FLOAT32	R	N	%	
3040	Voltage Unbalance B-C	2	FLOAT32	R	N	%	
3042	Voltage Unbalance C-A	2	FLOAT32	R	N	%	
3044	Voltage Unbalance L-L Worst	2	FLOAT32	R	N	%	
3046	Voltage Unbalance A-N	2	FLOAT32	R	N	%	
3048	Voltage Unbalance B-N	2	FLOAT32	R	N	%	
3050	Voltage Unbalance C-N	2	FLOAT32	R	N	%	
3052	Voltage Unbalance L-N Worst	2	FLOAT32	R	N	%	
Power							
3054	Active Power A	2	FLOAT32	R	N	kW	
3056	Active Power B	2	FLOAT32	R	N	kW	
3058	Active Power C	2	FLOAT32	R	N	kW	
3060	Active Power Total	2	FLOAT32	R	N	kW	
3062	Reactive Power A	2	FLOAT32	R	N	kVAR	
3064	Reactive Power B	2	FLOAT32	R	N	kVAR	
3066	Reactive Power C	2	FLOAT32	R	N	kVAR	
3068	Reactive Power Total	2	FLOAT32	R	N	kVAR	
3070	Apparent Power A	2	FLOAT32	R	N	kVA	
3072	Apparent Power B	2	FLOAT32	R	N	kVA	
3074	Apparent Power C	2	FLOAT32	R	N	kVA	
3076	Apparent Power Total	2	FLOAT32	R	N	kVA	
Power Factor							
3078	Power Factor A	2	PF32	R	N	---	
3080	Power Factor B	2	PF32	R	N	---	
3082	Power Factor C	2	PF32	R	N	---	
3084	Power Factor Total	2	PF32	R	N	---	
3086	Displacement Power Factor A	2	PF32	R	N	---	
3088	Displacement Power Factor B	2	PF32	R	N	---	
3090	Displacement Power Factor C	2	PF32	R	N	---	
3092	Displacement Power Factor Total	2	PF32	R	N	---	
Frequency							
3110	Frequency	2	FLOAT32	R	N	Hz	
Miscellaneous							
3134	Phase Rotation	1	INT16U	R	N	---	0 = ABC, 1 = CBA
Energy							
Accumulated Energy							
3200	Accumulated Energy Reset Date/Time	4	DATETIME	R	Y	---	
3204	Active Energy Delivered (Into Load)	4	INT64	R	Y	Wh	
3208	Active Energy Received (Out of Load)	4	INT64	R	Y	Wh	
3212	Active Energy Delivered + Received	4	INT64	R	Y	Wh	
3216	Active Energy Delivered – Received	4	INT64	R	Y	Wh	
3220	Reactive Energy Delivered	4	INT64	R	Y	VARh	
3224	Reactive Energy Received	4	INT64	R	Y	VARh	
3228	Reactive Energy Delivered + Received	4	INT64	R	Y	VARh	
3232	Reactive Energy Delivered – Received	4	INT64	R	Y	VARh	
3236	Apparent Energy Delivered	4	INT64	R	Y	VAh	
3240	Apparent Energy Received	4	INT64	R	Y	VAh	
3244	Apparent Energy Delivered + Received	4	INT64	R	Y	VAh	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
3248	Apparent Energy Delivered – Received	4	INT64	R	Y	VAh	
Demand							
Demand System 1 (Power)							
3701	Power Demand Method	1	INT16U	RWC	Y	---	0 = Thermal Demand 1 = Timed Interval Sliding Block 2 = Timed Interval Block 3 = Timed Interval Rolling Block 4 = Input Synchronized Block 5 = Input Synchronized Rolling Block 6 = Command Synchronized Block 7 = Command Synchronized Rolling Block
3702	Power Demand Interval Duration	1	INT16U	RWC	Y	minutes	
3703	Power Demand Subinterval Duration	1	INT16U	RWC	Y	minutes	For Thermal and Block demand methods, must be same as Interval Duration. Must be evenly divisible into Interval Duration.
3704	Power Demand Elapsed Time in Interval	1	INT16U	R	N	seconds	
3705	Power Demand Elapsed Time in Subinterval	1	INT16U	R	N	seconds	
3706	Power Demand Peak Reset Date/Time	4	DATETIME	R	Y	---	
Demand System 2 (Current)							
3711	Current Demand Method	1	INT16U	RWC	Y	---	"0 = Thermal Demand 1 = Timed Interval Sliding Block 2 = Timed Interval Block 3 = Timed Interval Rolling Block 4 = Input Synchronized Block 5 = Input Synchronized Rolling Block 6 = Command Synchronized Block 7 = Command Synchronized Rolling Block"
3712	Current Demand Interval Duration	1	INT16U	RWC	Y	minutes	
3713	Current Demand Subinterval Duration	1	INT16U	RWC	Y	minutes	"For Thermal and Block demand methods, must be same as Interval Duration."
3714	Current Demand Elapsed Time in Interval	1	INT16U	R	N	seconds	
3715	Current Demand Elapsed Time in Subinterval	1	INT16U	R	N	seconds	
3716	Current Demand Peak Reset Date/Time	4	DATETIME	R	Y	---	
Demand Channel 1 (Active Power)							
3761	Demand System Assignment – Active Power	1	INT16U	R	Y	---	Power Demand
3762	Register Number of Metered Quantity – Active Power	1	INT16U	R	Y	---	Active Power Total
3763	Units Code – Active Power	1	INT16U	R	Y	---	
3764	Last Demand – Active Power	2	FLOAT32	R	Y	kW	
3766	Present Demand – Active Power	2	FLOAT32	R	N	kW	
3768	Predicted Demand – Active Power	2	FLOAT32	R	N	kW	
3770	Peak Demand – Active Power	2	FLOAT32	R	Y	kW	
3772	Peak Demand DateTime – Active Power	4	DATETIME	R	Y	---	
Demand Channel 2 (Reactive Power)							
3777	Demand System Assignment – Reactive Power	1	INT16U	R	Y	---	Power Demand
3778	Register Number of Metered Quantity – Reactive Power	1	INT16U	R	Y	---	Reactive Power Total
3779	Units Code – Reactive Power	1	INT16U	R	Y	---	
3780	Last Demand – Reactive Power	2	FLOAT32	R	Y	kVAR	
3782	Present Demand – Reactive Power	2	FLOAT32	R	N	kVAR	
3784	Predicted Demand – Reactive Power	2	FLOAT32	R	N	kVAR	
3786	Peak Demand – Reactive Power	2	FLOAT32	R	Y	kVAR	
3788	Peak Demand DateTime – Reactive Power	4	DATETIME	R	Y	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Demand Channel 3 (Apparent Power)							
3793	Demand System Assignment – Apparent Power	1	INT16U	R	Y	---	Power Demand
3794	Register Number of Metered Quantity – Apparent Power	1	INT16U	R	Y	---	Apparent Power Total
3795	Units Code – Apparent Power	1	INT16U	R	Y	---	
3796	Last Demand – Apparent Power	2	FLOAT32	R	Y	kVA	
3798	Present Demand – Apparent Power	2	FLOAT32	R	N	kVA	
3800	Predicted Demand – Apparent Power	2	FLOAT32	R	N	kVA	
3802	Peak Demand – Apparent Power	2	FLOAT32	R	Y	kVA	
3804	Peak Demand DateTime – Apparent Power	4	DATETIME	R	Y	---	
Demand Channel 8 (Current Avg)							
3873	Demand System Assignment – Current Avg	1	INT16U	R	Y	---	Current Demand
3874	Register Number of Metered Quantity – Current Avg	1	INT16U	R	Y	---	Current, Average
3875	Units Code – Current Avg	1	INT16U	R	Y	---	
3876	Last Demand – Current Avg	2	FLOAT32	R	Y	A	
3878	Present Demand – Current Avg	2	FLOAT32	R	N	A	
3880	Predicted Demand – Current Avg	2	FLOAT32	R	N	A	
3882	Peak Demand – Current Avg	2	FLOAT32	R	Y	A	
3884	Peak Demand DateTime – Current Avg	4	DATETIME	R	Y	---	
Command Interface							
Commands							
Protected Command Interface							
5000	Requested Command	1	INT16U	RW	N	---	
5001	Command Semaphore	1	INT16U	RW	N	---	
5002	Command Parameter 001	1	INT16U	RW	N	---	
5124	Command Parameter 123	1	INT16U	RW	N	---	
5125	Command Status	1	INT16U	R	N	---	
5126	Command Result	1	INT16U	R	N	---	"0 = Valid Operation 3000 = Invalid Command 3001 = Invalid Parameter 3002 = Invalid Number of Parameters 3003 = Invalid Password 3004 = Command Failed Security Check 3005 = Invalid Command Interface 3006 = Revenue Security Active 3007 = Operation Not Performed 3008 = Invalid ID 3010 = Invalid Semaphore 3009 = Feature Not Supported 6000 = Invalid Control Mode 6001 = Digital Output Disabled'
5127	Command Data 001	1	INT16U	R	N	---	
5249	Command Data 123	1	INT16U	R	N	---	
Unprotected Command Interface							
5250	Requested Command	1	INT16U	RW	N	---	
5252	Command Parameter 001	1	INT16U	RW	N	---	
5374	Command Parameter 123	1	INT16U	RW	N	---	
5375	Command Status	1	INT16U	R	N	---	
5376	Command Result	1	INT16U	R	N	---	
5377	Command Data 001	1	INT16U	R	N	---	
5499	Command Data 123	1	INT16U	R	N	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Mailbox Registers							
5580	Mailbox Register 001	1	INT16U	RW	Y	---	
5679	Mailbox Register 100	1	INT16U	RW	Y	---	
Command Semaphore							
5680		1	INT16U	RW	N	---	
Command Session Active							
5681		1	INT16U	R	N	---	
HMI							
Setup							
Basic HMI Setup							
6001	HMI Contrast Setting	1	INT16U	RWC	Y	---	1 = Brightest…9 = Dimmest
6003	HMI Language	1	INT16U	RWC	Y	---	"0 = EnglishUS 9 = Chinese"
6004	HMI Date Format	1	INT16U	RWC	Y	---	"0 = MM/DD/YYYY 1 = YYYY/MM/DD 2 = DD/MM/YYYY"
6005	HMI Time Format	1	INT16U	RWC	Y	---	"0 = 2400hr
6006	HMI IEC/IEEE Mode	1	INT16U	RWC	Y	---	"0 = IEC 1 = IEEE"
6007	HMI Screen Timeout	1	INT16U	RWC	Y	minutes	0 = disabled
6008	HMI Backlight Timeout	1	INT16U	RWC	Y	minutes	0 = disabled
Communications							
RS-485							
RS-485 Base Unit							
6500	RS-485 Comm Port (M/S) Protocol	1	INT16U	RWC	Y	---	"0 = Modbus 1 = Jbus 2 = Modbus ASCII 8-Bit 3 = Modbus ASCII 7-Bit"
6501	RS-485 Comm Port (M/S) Address	1	INT16U	RWC	Y	---	"Valid Addresses: Modbus: 1 – 247 Jbus: 1 – 255"
6502	RS-485 Comm Port (M/S) Baud Rate	1	INT16U	RWC	Y	---	"0 = 9600 1 = 19200 2 = 38400"
6503	RS-485 Comm Port (M/S) Parity	1	INT16U	RWC	Y	---	"0 = Even 1 = Odd 2 = None"
6504	RS-485 Comm Port (M/S) Modbus ASCII Default Timeout	1	INT16U	RWC	Y	msec	Timeout for end of ASCII packet when no control delimitation is detected.
6508	RS-485 Comm Port (M/S) Packets To This Unit	1	INT16U	R	Y	---	Number of valid messages addressed to this unit
6509	RS-485 Comm Port (S) Packets To Other Units	1	INT16U	R	Y	---	Number of valid messages addressed to other units
6510	RS-485 Comm Port (M/S) Packets With Bad CRC	1	INT16U	R	Y	---	Number of messages received with bad CRC
6511	RS-485 Comm Port (M/S) Packets With Error	1	INT16U	R	Y	---	Number of messages received with errors
6512	RS-485 Comm Port (M/S) Packets With Illegal Opcode	1	INT16U	R	Y	---	Number of messages received with an illegal opcode
6513	RS-485 Comm Port (M/S) Number Of Exceptions	1	INT16U	R	Y	---	Number of exception replies
Inputs & Outputs							
Demand Sync Setup							
Digital Input Associations With Demand Systems							
7020	Demand System 1 (Power)	1	INT16U	RWC	Y	---	

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Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
7021	Demand System 2 (Current)	1	INT16U	RWC	Y	---	
Digital Output Associations With Demand Systems							
7026	Demand System 1 (Power)	1	INT16U	RWC	Y	---	
7027	Demand System 2 (Current)	1	INT16U	RWC	Y	---	
Digital Inputs Setup							
Base Unit - Digital Input DI1							
7273	Type	1	INT16U	R	N	---	
7274	Control Mode	1	INT16U	R	N	---	"0 = Normal (Alarm) 1 = Demand Interval Sync Pulse 2 = Multi-tariff Control 3 = Input Metering 4 = Conditional Energy Control 5 = Incremental Energy Reset"
7275	Label	20	UTF8	RWC	Y	---	
7295	Debounce Time	1	INT16U	RWC	Y	msec	Must be entered in increments of 10ms.
Base Unit - Digital Input DI2							
7297	Type	1	INT16U	R	N	---	
7298	Control Mode	1	INT16U	R	N	---	
7299	Label	20	UTF8	RWC	Y	---	
7319	Debounce Time	1	INT16U	RWC	Y	msec	Must be entered in increments of 10ms.
Base Unit - Digital Input DI3							
7321	Type	1	INT16U	R	N	---	
7322	Control Mode	1	INT16U	R	N	---	
7323	Label	20	UTF8	RWC	Y	---	
7343	Debounce Time	1	INT16U	RWC	Y	msec	Must be entered in increments of 10ms.
Base Unit - Digital Input DI4							
7345	Type	1	INT16U	R	N	---	
7346	Control Mode	1	INT16U	R	N	---	
7347	Label	20	UTF8	RWC	Y	---	
7367	Debounce Time	1	INT16U	RWC	Y	msec	Must be entered in increments of 10ms.
Digital Inputs Status							
On/Off Status							
8905	Digital Input Status – Base Unit	2	BITMAP	R	N	---	
Base Unit - Digital Input DI1							
8915	Count	2	INT32U	R	Y	---	
8917	On Time	2	INT32U	R	Y	seconds	
Base Unit - Digital Input DI2							
8919	Count	2	INT32U	R	Y	---	
8921	On Time	2	INT32U	R	Y	seconds	
Base Unit - Digital Input DI3							
8923	Count	2	INT32U	R	Y	---	
8925	On Time	2	INT32U	R	Y	seconds	
Base Unit - Digital Input DI4							
8927	Count	2	INT32U	R	Y	---	
8929	On Time	2	INT32U	R	Y	seconds	
Digital Outputs Setup							
Base Unit - Digital Output DO1							
9187	Type	1	INT16U	R	N	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
9188	Label	20	UTF8	RWC	Y	---	
9209	Behavioral Mode	1	INT16U	RWC	Y	---	"0 = Normal 1 = Timed 2 = Coil Hold"
9210	On Time For Timed Mode	1	INT16U	RWC	Y	seconds	The time for the output to remain energized when the output is energized in timed mode.
Base Unit - Digital Output DO2							
9211	Type	1	INT16U	R	N	---	
9212	Label	20	UTF8	RWC	Y	---	
9233	Behavioral Mode	1	INT16U	RWC	Y	---	"0 = Normal 1 = Timed 2 = Coil Hold"
9234	On Time For Timed Mode	1	INT16U	RWC	Y	seconds	The time for the output to remain energized when the output is energized in timed mode.
Digital Outputs Status							
On/Off Status							
9667	Digital Output Status – Base Unit	1	BITMAP	R	Y	---	
Base Unit - Digital Output DO1							
9672	Operating Mode Status	1	INT16U	R	N	---	0 = Normal, 1 = Override
9673	Control Mode Status	1	INT16U	R	N	---	"0 = External 1 = Alarm 2 = Demand Sync 3 = Energy"
9674	Behavioral Mode Status	1	INT16U	R	Y	---	"0 = Normal 1 = Timed 2 = Coil Hold"
9675	Count	2	INT32U	R	Y	---	
9677	On Time	2	INT32U	R	Y	seconds	
Base Unit - Digital Output DO2							
9680	Operating Mode Status	1	INT16U	R	N	---	
9681	Control Mode Status	1	INT16U	R	N	---	
9682	Behavioral Mode Status	1	INT16U	R	Y	---	
9683	Count	2	INT32U	R	Y	---	
9685	On Time	2	INT32U	R	Y	seconds	
Alarms							
Alarm Status							
Detected Priority Status							
11010	Detected Priority Status Bitmap	1	BITMAP	R	N	---	"Bit 01 = 1 if any priority 1-3 alarm is active Bit 02 = 1 if a "High" (1) priority alarm is active Bit 03 = 1 if a "Medium" (2) priority alarm is active Bit 04 = 1 if a "Low" (3) priority alarm is active Bit 05 = 1 if ""None"" (0) priority alarm is active"
Enabled Alarm Bitmaps							
11040	Standard – 1 second 1	1	BITMAP	R	N	---	0 = Disabled; 1 = Enabled
11041	Standard – 1 second 2	1	BITMAP	R	N	---	
11042	Standard – 1 second 3	1	BITMAP	R	N	---	
11050	Unary	1	BITMAP	R	N	---	
11051	Digital 1	1	BITMAP	R	N	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Detected Alarm Bitmaps							
11059	Standard – 1 second 1	1	BITMAP	R	N	---	0 = Not Detected; 1 = Detected
11060	Standard – 1 second 2	1	BITMAP	R	N	---	
11061	Standard – 1 second 3	1	BITMAP	R	N	---	
11069	Unary	1	BITMAP	R	N	---	
11070	Digital 1	1	BITMAP	R	N	---	
Unacknowledged High Priority Alarm Bitmaps							
11078	Standard – 1 second 1	1	BITMAP	R	N	---	0 = Acknowledged; 1 = Unacknowledged
11079	Standard – 1 second 2	1	BITMAP	R	N	---	
11080	Standard – 1 second 3	1	BITMAP	R	N	---	
11088	Unary	1	BITMAP	R	N	---	
11089	Digital 1	1	BITMAP	R	N	---	
Alarm Event Queue							
11111	Version of Event Queue	1	INT16U	R	N	---	
11113	Size of Event Queue	1	INT16U	R	N		
11114	Number of Entries in Event Queue	1	INT16U	R	Y	---	
11115	Entry Number of Most Recent Event	1	INT16U	R	Y	---	Rolls over from 65535 to 0.
Entry 001							
11116	Entry Number	1	INT16U	R	N	---	
11117	Date/Time	4	DATETIME	R	N	---	
11121	Record Type	1	INT16U	R	N	---	"Indicates datatype of Value. 0x0000 Boolean 0x0010 INT16U 0x0011 INT16 0x0020 INT32U 0x0021 INT32 0x0030 INT64U 0x0031 INT64 0x0040 FLOAT32 0x0041 FLOAT64"
11122	Register Number or Event Code	1	INT16U	R	N	---	
11123	Value	4	INT16U	R	N	---	
11127	Sequence Number	1	INT16U	R	N	---	
Entry 40							
11584	Entry Number	1	INT16U	R	N	---	
11585	Date/Time	4	DATETIME	R	N	---	
11589	Record Type	1	INT16U	R	N	---	
11590	Register Number or Event Code	1	INT16U	R	N	---	
11591	Value	4	INT16U	R	N	---	
11595	Sequence Number	1	INT16U	R	N	---	
Alarm History Log							
12316	Size of History Log	1	INT16U	R	N	---	
12317	Number of Entries in History Log	1	INT16U	R	Y	---	
12318	Entry Number of Most Recent Event	1	INT16U	R	Y	---	
Entry 001							
12319	Entry Number	1	INT16U	R	Y	---	
12320	Date/Time	4	DATETIME	R	Y	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
12324	Record Type	1	INT16U	R	Y	---	"Indicates datatype of Value. 0x0000 Boolean 0x0010 INT16U 0x0011 INT16 0x0020 INT32U 0x0021 INT32 0x0030 INT64U 0x0031 INT64 0x0040 FLOAT32 0x0041 FLOAT64"
12325	Register Number or Event Code	1	INT16U	R	Y	---	
12326	Value	4	INT16U	R	Y	---	
12330	Sequence Number	1	INT16U	R	Y	---	
Entry 040							
12787	Entry Number	1	INT16U	R	Y	---	
12788	Date/Time	4	DATETIME	R	Y	---	
12792	Record Type	1	INT16U	R	Y	---	
12793	Register Number or Event Code	1	INT16U	R	Y	---	
12794	Value	4	INT16U	R	Y	---	
12798	Sequence Number	1	INT16U	R	Y	---	
Alarm Counters							
Summary							
13519	Total Counter	1	INT16U	R	Y	---	
13520	Low Priority Counter	1	INT16U	R	Y	---	
13521	Medium Priority Counter	1	INT16U	R	Y	---	
13522	High Priority Counter	1	INT16U	R	Y	---	
1-Second Alarms - Standard							
13523	Over Current, Phase	1	INT16U	R	Y	---	
13524	Under Current, Phase	1	INT16U	R	Y	---	
13525	Over Current, Neutral	1	INT16U	R	Y	---	
13526	Over Current, Ground	1	INT16U	R	Y	---	
13527	Over Voltage, L-L	1	INT16U	R	Y	---	
13528	Under Voltage, L-L	1	INT16U	R	Y	---	
13529	Over Voltage, L-N	1	INT16U	R	Y	---	
13530	Under Voltage, L-N	1	INT16U	R	Y	---	
13531	Over Power, Active	1	INT16U	R	Y	---	
13532	Over Power, Reactive	1	INT16U	R	Y	---	
13533	Over Power, Apparent	1	INT16U	R	Y	---	
13534	Lead Power Factor, True	1	INT16U	R	Y	---	
13535	Lag Power Factor, True	1	INT16U	R	Y	---	
13536	Lead Power Factor, Displacement	1	INT16U	R	Y	---	
13537	Lag Power Factor, Displacement	1	INT16U	R	Y	---	
13538	Over Demand, Active Power, Present	1	INT16U	R	Y	---	
13539	Over Demand, Active Power, Last	1	INT16U	R	Y	---	
13540	Over Demand, Active Power, Predicted	1	INT16U	R	Y	---	
13541	Over Demand, Reactive Power, Present	1	INT16U	R	Y	---	
13542	Over Demand, Reactive Power, Last	1	INT16U	R	Y	---	
13543	Over Demand, Reactive Power, Predicted	1	INT16U	R	Y	---	
13544	Over Demand, Apparent Power, Present	1	INT16U	R	Y	---	
13545	Over Demand, Apparent Power, Last	1	INT16U	R	Y	---	
13546	Over Demand, Apparent Power, Predicted	1	INT16U	R	Y	---	
13547	Over Frequency	1	INT16U	R	Y	---	
13548	Under Frequency	1	INT16U	R	Y	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
13549	Over Voltage Unbalance	1	INT16U	R	Y	---	
13550	Over Voltage Total Harmonic Distortion	1	INT16U	R	Y	---	
13551	Phase Loss	1	INT16U	R	Y	---	
Unary Alarms							
13623	Phase Reversal	1	INT16U	R	Y	---	
13624	Meter Powerup (Control Power Loss)	1	INT16U	R	Y	---	
13625	Meter Reset	1	INT16U	R	Y	---	
13626	Meter Diagnostic	1	INT16U	R	Y	---	
Digital Alarms							
13633	Digital Alarm DI1	1	INT16U	R	Y	---	
13634	Digital Alarm DI2	1	INT16U	R	Y	---	
13635	Digital Alarm DI3	1	INT16U	R	Y	---	
13636	Digital Alarm DI4	1	INT16U	R	Y	---	
1-Second Alarms - Standard							
Over Current, Phase							
14000	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14002	Source Register A	1	INT16U	R	N	---	
14003	Source Register B	1	INT16U	R	N	---	
14004	Source Register C	1	INT16U	R	N	---	
14005	Pickup Setpoint	2	FLOAT32	RWC	Y	A	The maximum pickup setpoint allowed is the maximum current that can be reported under the present configuration of CT ratio.
14007	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14009	Dropout Setpoint	2	FLOAT32	RWC	Y	A	Must be <= Pickup Setpoint.
14011	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14013	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Under Current, Phase							
14020	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14022	Source Register A	1	INT16U	R	N	---	
14023	Source Register B	1	INT16U	R	N	---	
14024	Source Register C	1	INT16U	R	N	---	
14025	Pickup Setpoint	2	FLOAT32	RWC	Y	A	Must be <= Dropout Setpoint.
14027	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14029	Dropout Setpoint	2	FLOAT32	RWC	Y	A	"The maximum pickup setpoint allowed is the maximum current that can be reported under the present configuration of CT ratio."
14031	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14033	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	"Bitmap of digital outputs to associate with this alarm."
Over Current, Neutral							
14040	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14042	Source Register A	1	INT16U	R	N	---	
14043	Source Register B	1	INT16U	R	N	---	
14044	Source Register C	1	INT16U	R	N	---	
14045	Pickup Setpoint	2	FLOAT32	RWC	Y	A	"The maximum pickup setpoint allowed is the maximum current that can be reported under the present configuration of CT ratio."
14047	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14049	Dropout Setpoint	2	FLOAT32	RWC	Y	A	Must be <= Pickup Setpoint.
14051	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14053	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	"Bitmap of digital outputs to associate with this alarm."

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Over Current, Ground							
14060	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14062	Source Register A	1	INT16U	R	N	---	
14063	Source Register B	1	INT16U	R	N	---	
14064	Source Register C	1	INT16U	R	N	---	
14065	Pickup Setpoint	2	FLOAT32	RWC	Y	A	The maximum pickup setpoint allowed is the maximum current that can be reported under the present configuration of CT ratio.
14067	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14069	Dropout Setpoint	2	FLOAT32	RWC	Y	A	Must be <= Pickup Setpoint.
14071	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14073	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Voltage, L-L							
14080	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14082	Source Register A	1	INT16U	R	N	---	
14083	Source Register B	1	INT16U	R	N	---	
14084	Source Register C	1	INT16U	R	N	---	
14085	Pickup Setpoint	2	FLOAT32	RWC	Y	V	The maximum pickup setpoint allowed is the maximum voltage that can be reported under the present configuration of VT ratio.
14087	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14089	Dropout Setpoint	2	FLOAT32	RWC	Y	V	Must be <= Pickup Setpoint.
14091	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14093	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Under Voltage, L-L							
14100	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14102	Source Register A	1	INT16U	R	N	---	
14103	Source Register B	1	INT16U	R	N	---	
14104	Source Register C	1	INT16U	R	N	---	
14105	Pickup Setpoint	2	FLOAT32	RWC	Y	V	Must be <= Dropout Setpoint.
14107	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14109	Dropout Setpoint	2	FLOAT32	RWC	Y	V	The maximum dropout setpoint allowed is the maximum voltage that can be reported under the present configuration of VT ratio.
14111	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14113	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Voltage, L-N							
14120	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14122	Source Register A	1	INT16U	R	N	---	
14123	Source Register B	1	INT16U	R	N	---	
14124	Source Register C	1	INT16U	R	N	---	
14125	Pickup Setpoint	2	FLOAT32	RWC	Y	V	The maximum pickup setpoint allowed is the maximum voltage that can be reported under the present configuration of VT ratio.
14127	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14129	Dropout Setpoint	2	FLOAT32	RWC	Y	V	Must be <= Pickup Setpoint.
14131	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14133	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Under Voltage, L-N							
14140	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14142	Source Register A	1	INT16U	R	N	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
14143	Source Register B	1	INT16U	R	N	---	
14144	Source Register C	1	INT16U	R	N	---	
14145	Pickup Setpoint	2	FLOAT32	RWC	Y	V	Must be <= Dropout Setpoint.
14147	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14149	Dropout Setpoint	2	FLOAT32	RWC	Y	V	The maximum dropout setpoint allowed is the maximum voltage that can be reported under the present configuration of VT ratio.
14151	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14153	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Power, Active							
14160	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14162	Source Register A	1	INT16U	R	N	---	
14163	Source Register B	1	INT16U	R	N	---	
14164	Source Register C	1	INT16U	R	N	---	
14165	Pickup Setpoint	2	FLOAT32	RWC	Y	kW	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14167	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14169	Dropout Setpoint	2	FLOAT32	RWC	Y	kW	Must be <= Pickup Setpoint.
14171	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14173	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Power, Reactive							
14180	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14182	Source Register A	1	INT16U	R	N	---	
14183	Source Register B	1	INT16U	R	N	---	
14184	Source Register C	1	INT16U	R	N	---	
14185	Pickup Setpoint	2	FLOAT32	RWC	Y	kVAR	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14187	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14189	Dropout Setpoint	2	FLOAT32	RWC	Y	kVAR	Must be <= Pickup Setpoint.
14191	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14193	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Power, Apparent							
14200	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14202	Source Register A	1	INT16U	R	N	---	
14203	Source Register B	1	INT16U	R	N	---	
14204	Source Register C	1	INT16U	R	N	---	
14205	Pickup Setpoint	2	FLOAT32	RWC	Y	kVA	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14207	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14209	Dropout Setpoint	2	FLOAT32	RWC	Y	kVA	Must be <= Pickup Setpoint.
14211	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14213	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Leading Power Factor, True							
14220	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14222	Source Register A	1	INT16U	R	N	---	
14223	Source Register B	1	INT16U	R	N	---	

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Reg	Name	Size	Type	Access	NV	Units	Notes
14224	Source Register C	1	INT16U	R	N	---	
14225	Pickup Setpoint	2	FLOAT32	RWC	Y	---	
14227	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14229	Dropout Setpoint	2	FLOAT32	RWC	Y	---	
14231	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14233	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Lagging Power Factor, True							
14240	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14242	Source Register A	1	INT16U	R	N	---	
14243	Source Register B	1	INT16U	R	N	---	
14244	Source Register C	1	INT16U	R	N	---	
14245	Pickup Setpoint	2	FLOAT32	RWC	Y	---	
14247	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14249	Dropout Setpoint	2	FLOAT32	RWC	Y	---	
14251	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14253	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Leading Power Factor, Displacement							
14260	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14262	Source Register A	1	INT16U	R	N	---	
14263	Source Register B	1	INT16U	R	N	---	
14264	Source Register C	1	INT16U	R	N	---	
14265	Pickup Setpoint	2	FLOAT32	RWC	Y	---	
14267	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14269	Dropout Setpoint	2	FLOAT32	RWC	Y	---	
14271	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14273	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Lagging Power Factor, Displacement							
14280	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14282	Source Register A	1	INT16U	R	N	---	
14283	Source Register B	1	INT16U	R	N	---	
14284	Source Register C	1	INT16U	R	N	---	
14285	Pickup Setpoint	2	FLOAT32	RWC	Y	---	
14287	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14289	Dropout Setpoint	2	FLOAT32	RWC	Y	---	
14291	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14293	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Demand, Active Power, Present							
14300	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14302	Source Register A	1	INT16U	R	N	---	
14303	Source Register B	1	INT16U	R	N	---	
14304	Source Register C	1	INT16U	R	N	---	
14305	Pickup Setpoint	2	FLOAT32	RWC	Y	kW	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14307	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14309	Dropout Setpoint	2	FLOAT32	RWC	Y	kW	Must be <= Pickup Setpoint.
14311	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14313	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Over Demand, Active Power, Last							
14320	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14322	Source Register A	1	INT16U	R	N	---	
14323	Source Register B	1	INT16U	R	N	---	
14324	Source Register C	1	INT16U	R	N	---	
14325	Pickup Setpoint	2	FLOAT32	RWC	Y	kW	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14327	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14329	Dropout Setpoint	2	FLOAT32	RWC	Y	kW	Must be <= Pickup Setpoint.
14331	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14333	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Demand, Active Power, Predicted							
14340	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14342	Source Register A	1	INT16U	R	N	---	
14343	Source Register B	1	INT16U	R	N	---	
14344	Source Register C	1	INT16U	R	N	---	
14345	Pickup Setpoint	2	FLOAT32	RWC	Y	kW	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14347	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14349	Dropout Setpoint	2	FLOAT32	RWC	Y	kW	Must be <= Pickup Setpoint.
14351	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14353	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Demand, Reactive Power, Present							
14360	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14362	Source Register A	1	INT16U	R	N	---	
14363	Source Register B	1	INT16U	R	N	---	
14364	Source Register C	1	INT16U	R	N	---	
14365	Pickup Setpoint	2	FLOAT32	RWC	Y	kVAR	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14367	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14369	Dropout Setpoint	2	FLOAT32	RWC	Y	kVAR	Must be <= Pickup Setpoint.
14371	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14373	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Demand, Reactive Power, Last							
14380	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14382	Source Register A	1	INT16U	R	N	---	
14383	Source Register B	1	INT16U	R	N	---	
14384	Source Register C	1	INT16U	R	N	---	
14385	Pickup Setpoint	2	FLOAT32	RWC	Y	kVAR	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14387	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14389	Dropout Setpoint	2	FLOAT32	RWC	Y	kVAR	Must be <= Pickup Setpoint.
14391	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14393	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Over Demand, Reactive Power, Predicted							
14400	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14402	Source Register A	1	INT16U	R	N	---	
14403	Source Register B	1	INT16U	R	N	---	
14404	Source Register C	1	INT16U	R	N	---	
14405	Pickup Setpoint	2	FLOAT32	RWC	Y	kVAR	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14407	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14409	Dropout Setpoint	2	FLOAT32	RWC	Y	kVAR	Must be <= Pickup Setpoint.
14411	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14413	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Demand, Apparent Power, Present							
14420	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14422	Source Register A	1	INT16U	R	N	---	
14423	Source Register B	1	INT16U	R	N	---	
14424	Source Register C	1	INT16U	R	N	---	
14425	Pickup Setpoint	2	FLOAT32	RWC	Y	kVA	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14427	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14429	Dropout Setpoint	2	FLOAT32	RWC	Y	kVA	Must be <= Pickup Setpoint.
14431	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14433	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Demand, Apparent Power, Last							
14440	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14442	Source Register A	1	INT16U	R	N	---	
14443	Source Register B	1	INT16U	R	N	---	
14444	Source Register C	1	INT16U	R	N	---	
14445	Pickup Setpoint	2	FLOAT32	RWC	Y	kVA	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14447	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14449	Dropout Setpoint	2	FLOAT32	RWC	Y	kVA	Must be <= Pickup Setpoint.
14451	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14453	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Demand, Apparent Power, Predicted							
14460	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14462	Source Register A	1	INT16U	R	N	---	
14463	Source Register B	1	INT16U	R	N	---	
14464	Source Register C	1	INT16U	R	N	---	
14465	Pickup Setpoint	2	FLOAT32	RWC	Y	kVA	The maximum pickup setpoint allowed is the maximum power that can be reported under the present configuration of CT and VT ratio.
14467	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14469	Dropout Setpoint	2	FLOAT32	RWC	Y	kVA	Must be <= Pickup Setpoint.
14471	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14473	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Frequency							
14480	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14482	Source Register A	1	INT16U	R	N	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
14483	Source Register B	1	INT16U	R	N	---	
14484	Source Register C	1	INT16U	R	N	---	
14485	Pickup Setpoint	2	FLOAT32	RWC	Y	Hz	
14487	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14489	Dropout Setpoint	2	FLOAT32	RWC	Y	Hz	Must be <= Pickup Setpoint.
14491	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14493	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Under Frequency							
14500	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14502	Source Register A	1	INT16U	R	N	---	
14503	Source Register B	1	INT16U	R	N	---	
14504	Source Register C	1	INT16U	R	N	---	
14505	Pickup Setpoint	2	FLOAT32	RWC	Y	Hz	Must be <= Dropout Setpoint.
14507	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14509	Dropout Setpoint	2	FLOAT32	RWC	Y	Hz	
14511	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14513	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Voltage Unbalance							
14520	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14522	Source Register A	1	INT16U	R	N	---	
14523	Source Register B	1	INT16U	R	N	---	
14524	Source Register C	1	INT16U	R	N	---	
14525	Pickup Setpoint	2	FLOAT32	RWC	Y	%	
14527	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14529	Dropout Setpoint	2	FLOAT32	RWC	Y	%	Must be <= Pickup Setpoint.
14531	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14533	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Over Voltage Total Harmonic Distortion							
14540	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14542	Source Register A	1	INT16U	R	N	---	
14543	Source Register B	1	INT16U	R	N	---	
14544	Source Register C	1	INT16U	R	N	---	
14545	Pickup Setpoint	2	FLOAT32	RWC	Y	%	
14547	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14549	Dropout Setpoint	2	FLOAT32	RWC	Y	%	Must be <= Pickup Setpoint.
14551	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
14553	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Phase Loss							
14560	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
14562	Source Register A	1	INT16U	R	N	---	
14563	Source Register B	1	INT16U	R	N	---	
14564	Source Register C	1	INT16U	R	N	---	
14565	Pickup Setpoint	2	FLOAT32	RWC	Y	V	
14567	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
14569	Dropout Setpoint	2	FLOAT32	RWC	Y	V	Must be <= Pickup Setpoint.
14571	Dropout Time Delay	2	INT32U	RWC	Y	seconds	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
14573	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Unary Alarms							
Meter Power Up (Control Power Loss)							
16200	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16202	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Meter Reset							
16210	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16212	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Meter Diagnostic							
16220	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16222	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Phase Reversal							
16230	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16232	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Digital Alarms							
Digital Alarm DI1							
16300	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16302	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
16304	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
16306	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Digital Alarm DI2							
16314	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16316	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
16318	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
16320	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Digital Alarm DI3							
16328	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16330	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
16332	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
16334	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.
Digital Alarm DI4							
16342	Attributes	2	INT32U	RWC	Y	---	See Alarm Attributes for details.
16344	Pickup Time Delay	2	INT32U	RWC	Y	seconds	
16346	Dropout Time Delay	2	INT32U	RWC	Y	seconds	
16348	Digital Outputs to Associate – Standard	1	BITMAP	RWC	Y	---	Bitmap of digital outputs to associate with this alarm.

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Diagnostics							
Self-Test Results							
Miscellaneous Self-Test							
20003	Meter Self-Test	5	BITMAP	R	N	---	"0 = OK, 1 = Error Detected Bit 01 = Summary (on if any other bit is on - Maintenance Icon shown on HMI) Bit 02 = RAM Failure Bit 03 = NVRAM Failure Bit 04 = RTC Failure Bit 05 = Calibration Failure Bit 06 = Clipping Detected Bit 07 = Over-Running Energy Pulse Output Bit 08-16 Not Used"
Meter Data (Advanced)							
Frequency							
21016	Frequency 1 Cycle	2	FLOAT32	R	N	Hz	
Power Quality							
Total Harmonic Distortion, Current							
21300	THD Current A	2	FLOAT32	R	N	%	THD = (RMS of harmonics / RMS of fundamental) * 100
21302	THD Current B	2	FLOAT32	R	N	%	
21304	THD Current C	2	FLOAT32	R	N	%	
21306	THD Current N	2	FLOAT32	R	N	%	
21308	THD Current G	2	FLOAT32	R	N	%	
21310	thd Current A	2	FLOAT32	R	N	%	thd = (RMS of harmonics / total RMS) * 100
21312	thd Current B	2	FLOAT32	R	N	%	
21314	thd Current C	2	FLOAT32	R	N	%	
21316	thd Current N	2	FLOAT32	R	N	%	
21318	thd Current G	2	FLOAT32	R	N	%	
Total Demand Distortion							
21320	Total Demand Distortion	2	FLOAT32	R	N	%	
Total Harmonic Distortion, Voltage							
21322	THD Voltage A-B	2	FLOAT32	R	N	%	
21324	THD Voltage B-C	2	FLOAT32	R	N	%	
21326	THD Voltage C-A	2	FLOAT32	R	N	%	
21328	THD Voltage L-L	2	FLOAT32	R	N	%	
21330	THD Voltage A-N	2	FLOAT32	R	N	%	
21332	THD Voltage B-N	2	FLOAT32	R	N	%	
21334	THD Voltage C-N	2	FLOAT32	R	N	%	
21338	THD Voltage L-N	2	FLOAT32	R	N	%	
21340	thd Voltage A-B	2	FLOAT32	R	N	%	
21342	thd Voltage B-C	2	FLOAT32	R	N	%	
21344	thd Voltage C-A	2	FLOAT32	R	N	%	
21346	thd Voltage L-L	2	FLOAT32	R	N	%	
21348	thd Voltage A-N	2	FLOAT32	R	N	%	
21350	thd Voltage B-N	2	FLOAT32	R	N	%	
21352	thd Voltage C-N	2	FLOAT32	R	N	%	
21356	thd Voltage L-N	2	FLOAT32	R	N	%	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Minimum Values							
27214	Min/Max Reset Datetime	4	DATETIME	R	Y	---	
Current							
27218	Min Current A	2	FLOAT32	R	Y	A	
27220	Min Current B	2	FLOAT32	R	Y	A	
27222	Min Current C	2	FLOAT32	R	Y	A	
27224	Min Current N	2	FLOAT32	R	Y	A	
27226	Min Current G	2	FLOAT32	R	Y	A	
27228	Min Current Avg	2	FLOAT32	R	Y	A	
Current Unbalance							
27230	Min Current Unbalance A	2	FLOAT32	R	Y	%	
27232	Min Current Unbalance B	2	FLOAT32	R	Y	%	
27234	Min Current Unbalance C	2	FLOAT32	R	Y	%	
27236	Min Current Unbalance Worst	2	FLOAT32	R	Y	%	
Voltage							
27238	Min Voltage A-B	2	FLOAT32	R	Y	V	
27240	Min Voltage B-C	2	FLOAT32	R	Y	V	
27242	Min Voltage C-A	2	FLOAT32	R	Y	V	
27244	Min Voltage L-L Avg	2	FLOAT32	R	Y	V	
27246	Min Voltage A-N	2	FLOAT32	R	Y	V	
27248	Min Voltage B-N	2	FLOAT32	R	Y	V	
27250	Min Voltage C-N	2	FLOAT32	R	Y	V	
27254	Min Voltage L-N Avg	2	FLOAT32	R	Y	V	
Voltage Unbalance							
27256	Min Voltage Unbalance A-B	2	FLOAT32	R	Y	%	
27258	Min Voltage Unbalance B-C	2	FLOAT32	R	Y	%	
27260	Min Voltage Unbalance C-A	2	FLOAT32	R	Y	%	
27262	Min Voltage Unbalance L-L Worst	2	FLOAT32	R	Y	%	
27264	Min Voltage Unbalance A-N	2	FLOAT32	R	Y	%	
27266	Min Voltage Unbalance B-N	2	FLOAT32	R	Y	%	
27268	Min Voltage Unbalance C-N	2	FLOAT32	R	Y	%	
27270	Min Voltage Unbalance L-N Worst	2	FLOAT32	R	Y	%	
Power							
27272	Min Active Power A	2	FLOAT32	R	Y	kW	
27274	Min Active Power B	2	FLOAT32	R	Y	kW	
27276	Min Active Power C	2	FLOAT32	R	Y	kW	
27278	Min Active Power Total	2	FLOAT32	R	Y	kW	
27280	Min Reactive Power A	2	FLOAT32	R	Y	kVAR	
27282	Min Reactive Power B	2	FLOAT32	R	Y	kVAR	
27284	Min Reactive Power C	2	FLOAT32	R	Y	kVAR	
27286	Min Reactive Power Total	2	FLOAT32	R	Y	kVAR	
27288	Min Apparent Power A	2	FLOAT32	R	Y	kVA	
27290	Min Apparent Power B	2	FLOAT32	R	Y	kVA	
27292	Min Apparent Power C	2	FLOAT32	R	Y	kVA	
27294	Min Apparent Power Total	2	FLOAT32	R	Y	kVA	
Power Factor							
27306	Min Power Factor A	2	PF32	R	Y	---	
27308	Min Power Factor B	2	PF32	R	Y	---	
27310	Min Power Factor C	2	PF32	R	Y	---	
27312	Min Power Factor Total	2	PF32	R	Y	---	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
27314	Min Displacement Power Factor A	2	PF32	R	Y	---	
27316	Min Displacement Power Factor B	2	PF32	R	Y	---	
27318	Min Displacement Power Factor C	2	PF32	R	Y	---	
27320	Min Displacement PF Total	2	PF32	R	Y	---	
Total Harmonic Distortion, Current							
27338	Min THD Current A	2	FLOAT32	R	Y	%	THD = (RMS of harmonics / RMS of fundamental) * 100
27340	Min THD Current B	2	FLOAT32	R	Y	%	
27342	Min THD Current C	2	FLOAT32	R	Y	%	
27344	Min THD Current N	2	FLOAT32	R	Y	%	
27346	Min THD Current G	2	FLOAT32	R	Y	%	
27348	Min thd Current A	2	FLOAT32	R	Y	%	thd = (RMS of harmonics / total RMS) * 100
27350	Min thd Current B	2	FLOAT32	R	Y	%	
27352	Min thd Current C	2	FLOAT32	R	Y	%	
27354	Min thd Current N	2	FLOAT32	R	Y	%	
Total Demand Distortion							
27358	Min Total Demand Distortion	2	FLOAT32	R	Y	%	
Total Harmonic Distortion, Voltage							
27360	Min THD Voltage A-B	2	FLOAT32	R	Y	%	
27362	Min THD Voltage B-C	2	FLOAT32	R	Y	%	
27364	Min THD Voltage C-A	2	FLOAT32	R	Y	%	
27366	Min THD Voltage L-L	2	FLOAT32	R	Y	%	
27368	Min THD Voltage A-N	2	FLOAT32	R	Y	%	
27370	Min THD Voltage B-N	2	FLOAT32	R	Y	%	
27372	Min THD Voltage C-N	2	FLOAT32	R	Y	%	
27376	Min THD Voltage L-N	2	FLOAT32	R	Y	%	
27378	Min thd Voltage A-B	2	FLOAT32	R	Y	%	
27380	Min thd Voltage B-C	2	FLOAT32	R	Y	%	
27382	Min thd Voltage C-A	2	FLOAT32	R	Y	%	
27384	Min thd Voltage L-L	2	FLOAT32	R	Y	%	
27386	Min thd Voltage A-N	2	FLOAT32	R	Y	%	
27388	Min thd Voltage B-N	2	FLOAT32	R	Y	%	
27390	Min thd Voltage C-N	2	FLOAT32	R	Y	%	
27394	Min thd Voltage L-N	2	FLOAT32	R	Y	%	
Frequency							
27616	Min Frequency	2	FLOAT32	R	Y	Hz	
Maximum Values							
Current							
27694	Max Current A	2	FLOAT32	R	Y	A	
27696	Max Current B	2	FLOAT32	R	Y	A	
27698	Max Current C	2	FLOAT32	R	Y	A	
27700	Max Current N	2	FLOAT32	R	Y	A	
27702	Max Current G	2	FLOAT32	R	Y	A	
27704	Max Current Avg	2	FLOAT32	R	Y	A	
Current Unbalance							
27706	Max Current Unbalance A	2	FLOAT32	R	Y	%	
27708	Max Current Unbalance B	2	FLOAT32	R	Y	%	
27710	Max Current Unbalance C	2	FLOAT32	R	Y	%	
27712	Max Current Unbalance Worst	2	FLOAT32	R	Y	%	

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Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Voltage							
27714	Max Voltage A-B	2	FLOAT32	R	Y	V	
27716	Max Voltage B-C	2	FLOAT32	R	Y	V	
27718	Max Voltage C-A	2	FLOAT32	R	Y	V	
27720	Max Voltage L-L Avg	2	FLOAT32	R	Y	V	
27722	Max Voltage A-N	2	FLOAT32	R	Y	V	
27724	Max Voltage B-N	2	FLOAT32	R	Y	V	
27726	Max Voltage C-N	2	FLOAT32	R	Y	V	
27730	Max Voltage L-N Avg	2	FLOAT32	R	Y	V	
Voltage Unbalance							
27732	Max Voltage Unbalance A-B	2	FLOAT32	R	Y	%	
27734	Max Voltage Unbalance B-C	2	FLOAT32	R	Y	%	
27736	Max Voltage Unbalance C-A	2	FLOAT32	R	Y	%	
27738	Max Voltage Unbalance L-L Worst	2	FLOAT32	R	Y	%	
27740	Max Voltage Unbalance A-N	2	FLOAT32	R	Y	%	
27742	Max Voltage Unbalance B-N	2	FLOAT32	R	Y	%	
27744	Max Voltage Unbalance C-N	2	FLOAT32	R	Y	%	
27746	Max Voltage Unbalance L-N Worst	2	FLOAT32	R	Y	%	
Power							
27748	Max Active Power A	2	FLOAT32	R	Y	kW	
27750	Max Active Power B	2	FLOAT32	R	Y	kW	
27752	Max Active Power C	2	FLOAT32	R	Y	kW	
27754	Max Active Power Total	2	FLOAT32	R	Y	kW	
27756	Max Reactive Power A	2	FLOAT32	R	Y	kVAR	
27758	Max Reactive Power B	2	FLOAT32	R	Y	kVAR	
27760	Max Reactive Power C	2	FLOAT32	R	Y	kVAR	
27762	Max Reactive Power Total	2	FLOAT32	R	Y	kVAR	
27764	Max Apparent Power A	2	FLOAT32	R	Y	kVA	
27766	Max Apparent Power B	2	FLOAT32	R	Y	kVA	
27768	Max Apparent Power C	2	FLOAT32	R	Y	kVA	
27770	Max Apparent Power Total	2	FLOAT32	R	Y	kVA	
Power Factor							
27782	Max Power Factor A	2	PF32	R	Y	---	
27784	Max Power Factor B	2	PF32	R	Y	---	
27786	Max Power Factor C	2	PF32	R	Y	---	
27788	Max Power Factor Total	2	PF32	R	Y	---	
27790	Max Displacement Power Factor A	2	PF32	R	Y	---	
27792	Max Displacement Power Factor B	2	PF32	R	Y	---	
27794	Max Displacement Power Factor C	2	PF32	R	Y	---	
27796	Max Displacement PF Total	2	PF32	R	Y	---	
Total Harmonic Distortion, Current							
27814	Max THD Current A	2	FLOAT32	R	Y	%	THD = (RMS of harmonics / RMS of fundamental) * 100
27816	Max THD Current B	2	FLOAT32	R	Y	%	
27818	Max THD Current C	2	FLOAT32	R	Y	%	
27820	Max THD Current N	2	FLOAT32	R	Y	%	
27822	Max THD Current G	2	FLOAT32	R	Y	%	
27824	Max thd Current A	2	FLOAT32	R	Y	%	thd = (RMS of harmonics / total RMS) * 100
27826	Max thd Current B	2	FLOAT32	R	Y	%	
27828	Max thd Current C	2	FLOAT32	R	Y	%	
27830	Max thd Current N	2	FLOAT32	R	Y	%	

Appendix D Table –1 Register List

Reg	Name	Size	Type	Access	NV	Units	Notes
Total Demand Distortion							
27834	Max Total Demand Distortion	2	FLOAT32	R	Y	%	
Total Harmonic Distortion, Voltage							
27836	Max THD Voltage A-B	2	FLOAT32	R	Y	%	
27838	Max THD Voltage B-C	2	FLOAT32	R	Y	%	
27840	Max THD Voltage C-A	2	FLOAT32	R	Y	%	
27842	Max THD Voltage L-L	2	FLOAT32	R	Y	%	
27844	Max THD Voltage A-N	2	FLOAT32	R	Y	%	
27846	Max THD Voltage B-N	2	FLOAT32	R	Y	%	
27848	Max THD Voltage C-N	2	FLOAT32	R	Y	%	
27852	Max THD Voltage L-N	2	FLOAT32	R	Y	%	
27854	Max thd Voltage A-B	2	FLOAT32	R	Y	%	
27856	Max thd Voltage B-C	2	FLOAT32	R	Y	%	
27858	Max thd Voltage C-A	2	FLOAT32	R	Y	%	
27860	Max thd Voltage L-L	2	FLOAT32	R	Y	%	
27862	Max thd Voltage A-N	2	FLOAT32	R	Y	%	
27864	Max thd Voltage B-N	2	FLOAT32	R	Y	%	
27866	Max thd Voltage C-N	2	FLOAT32	R	Y	%	
27870	Max thd Voltage L-N	2	FLOAT32	R	Y	%	
Frequency							
28092	Max Frequency	2	FLOAT32	R	Y	Hz	