System Parameter Settings: 03H Read, 10H Write						
Address (H)	**Address (D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**
0FFDH	4093	Frequency	0: 50Hz 1: 60Hz 2: 400Hz	0	Word	R/W
0FFEH	4094	First Communication Protocol	0: Modbus 1: DNP3.0	0	Word	R/W
0FFFH	4095	Parity for Communication Protocol 1	0: Even 1: Odd 2: Non2 3: Non1	3	Word	R/W
1000H	4096	Password	0~9999	0	Word	R/W
1001H	4097	Communication Address 1	1~247 (Modbus) 0~65534 (DNP3.0)	1	Word	R/W
1002H	4098	Baud Rate for Communication Protocol 1	1200~38400	19200	Word	R/W
1003H	4099	Voltage Input Wiring Type	0: 3LN 1: 1LN 2: 2LL 3: 3LL 4: 1LL	0	Word	R/W
1004H	4100	Current Input Wiring Type	0: 3CT 1: 1CT 2: 2CT	0	Word	R/W
1005H	4101	PT1 (High 16 bit)	50.0~500000.0	0	Word	R/W
1006H	4102	PT1 (Low 16 bit)		400	Word	R/W
1007H	4103	PT2	50.0~400.0	400	Word	R/W
1008H	4104	CT1	1~50000	5 *	Word	R/W
1009H	4105	CT2	1(A), 5(A), 333 (333mV), 80, 100, 200 (mA)	5 *	Word	R/W
100AH	4106	kWh Pulse Constant	1~60000	5000	Word	R/W
100BH	4107	kvarh Pulse Constant	1~60000	5000	Word	R/W
100CH	4108	LCD Back light Time	0-120	1	Word	R/W
100DH	4109	Demand Sliding Window Time	1~30	15	Word	R/W
100EH	4110	Demand Calculation Mode	0: Fixed Window 1: Sliding Window 2: Thermal 3: Rolling Window	1	Word	R/W
100FH	4111	Clear Demand	Only 1 works	0	Word	R/W
1010H	4112	Max/Min Clear	Only 10 works	0	Word	R/W
1011H	4113	Run Time Clear	Only 1 works	0	Word	R/W
1012H	4114	Current I1 Direction	0: Positive 1: Negative	0	Word	R/W
1013H	4115	Current I2 Direction	0: Positive 1: Negative	0	Word	R/W
1014H	4116	Current I3 Direction	0: Positive 1: Negative	0	Word	R/W
1015H	4117	VAR/PF Convention	0: IEC 1: IEEE	0	Word	R/W
1016H	4118	Clear Energy	Only 1 works	0	Word	R/W
1017H	4119	Energy Calculation Mode	0: Fundamental 1: Full wave	1	Word	R/W
1018H	4120	Reactive Power Measurement Mode	0: Real 1: General	0	Word	R/W
1019H	4121	Energy Display Mode	0: Primary 1: Secondary	0	Word	R/W

System Parameter Settings: 03H Read, 10H Write						
Address (H)	**Address (D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**
101AH	4122	Reset Ethernet Module	0: None 1: Reset 2: Default	0	Word	R/W
101BH	4123	Enable SOE	0: None 1: AXM-IO11 2: AXM-IO21 3: AXM-IO31 4: AXM-IO12 5: AXM-IO22 6: AXM-IO32	0	Word	R/W
101CH	4124	Clear Pulse Counter	0: None 1: AXM-IO11 2: AXM-IO21 3: AXM-IO31 4: AXM-IO12 5: AXM-IO22 6: AXM-IO32	0	Word	R/W
101DH	4125	Basic Parameter Mode	0: Secondary 1: Primary	0	Word	R/W
1020H	4128	Demand Calculation Slipping Time	1~30	1	Word	R/W

* ***Remarks:*** The default value depends on the Current Input of the meter (CT2):
CT2: 333mV CT1: 1
CT2: 5A CT1: 5
CT2: 120/60(120mV at 60Hz) CT1: 1000

System Status ParametersSystem Status 03H Read, 10H Write						
Address (H)	**Address (D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**
101EH	4126	Sealed Non Standard Parmeters	Bit0: 1st communication parameters Bit1: 2nd communication parameters Bit2: Clear Run time Bit3: DI Pulse count Bit4: TOU		Word	R/W
101FH	4127	Seal Status	0x0A: Sealed / Other: Seal opened		Word	R/W
1020H	4128	Reserved			Word	R/W
1021H	4129	Clear Alarm Record	0x0A: Clear / Other: Not Clear		Word	R/W
1022H-102DH	4130-4141	Reserved			Word	R/W
102EH	4142	System Status	Bit0: New alarm record Bit1: New SOE record		Word	R/W
102FH	4143	Baud Rate 2	4800~38400	38400	Word	R/W
1030H	4144	Parity 2	0: Even 1: Odd 2: Non2 3: Non1	3	Word	R/W
1031H	4145	Communication Address 2	1~247	1	Word	R/W
1032H	4146	Alarm Record Number	0: No alarming record 1~20: Last SOE record number		Word	R/W
1033H	4147	SOE Record Number	0: No SOE record 1~20: Last SOE record number		Word	R/W
1034H	4148	Run Time (High)	0~999999999		Word	R/W
1035H	4149	Run Time (Low)			Word	R/W
1036H	4150	Expansion IO Modules Status	Bit0: AXM-IO11 Bit1: AXM-IO12 Bit2: AXM-IO21 Bit3: AXM-IO31 Bit4: AXM-IO32 0: Disconnected / 1: Connected		Word	R/W
1037H	4151	Reserved			Word	R/W
1038H	4152	2nd Communication Selection	0: Other Protocol 1: BACnet Protocol 2: Mesh Protocol 3: WiFi	0	Word	R/W
1039H	4153	10 Year Holiday Setting Enable	1: Enable		Word	R/W
103AH	4154	Clear Sharp Tariff	0x0A: Clear / Other: Not Clear		Word	R/W
103BH	4155	Clear Peak Tariff	0x0A: Clear / Other: Not Clear		Word	R/W
103CH	4156	Clear Valley Tariff	0x0A: Clear / Other: Not Clear		Word	R/W
103DH	4157	Clear Normal Tariff	0x0A: Clear / Other: Not Clear		Word	R/W
103EH	4158	Clear Total	0x0A: Clear / Other: Not Clear			

Clock Settings: 03H Read, 10H Write					
Address(H)	**Address(D)**	**Parameter**	**Range**	**Data Type**	**Access Property**
103FH	4159	Week	0~6	Word	R/W
1040H	4160	Year	2000~2099	Word	R/W
1041H	4161	Month	1~12	Word	R/W
1042H	4162	Day	1~31	Word	R/W
1043H	4163	Hour	0-23	Word	R/W
1044H	4164	Minute	0-59	Word	R/W
1045H	4165	Second	0-59	Word	R/W

Basic Real-time Parameters: 03H Read

NOTE: The parameter mode Primary or Secondary corresponds to the Basic Parameter Mode (at address 101DH) in the system parameter settings. You can also configure the parameter mode from the 'S28 PARA MODE' in the system settings through the meters display. The basic parameter mode of the meter is in Secondary Mode by default.

Address (H)	Address (D)	Symbol	Parameter	Parameter Mode		Property	Data Type	Access Property
				Primary Mode	Secondary Mode			
4000H-4001H	16384-16385	F	Frequency	F=Rx	F=Rx	Hz	Float	R
4002H-4003H	16386-16387	U1	Phase 1 Voltage	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
4004H-4005H	16388-16389	U2	Phase 2 Voltage	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
4006H-4007H	16390-16391	U3	Phase 3 Voltage	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
4008H-4009H	16392-16393	Uavg	Average Phase Voltage	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
400AH-400BH	16394-16395	U12	Line Voltage 1-2	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
400CH-400DH	16396-16397	U23	Line Voltage 2-3	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
400EH-400FH	16398-16399	U31	Line Voltage 3-1	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
4010H-4011H	16400-16401	Ulavg	Average Line Voltage	U=Rx	U=Rx*(PT1/PT2)	V	Float	R
4012H-4013H	16402-16403	IL1	Total Phase A Current	I=Rx	I=Rx*(CT1/CT2)	A	Float	R
4014H-4015H	16404-16405	IL2	Total Phase B Current	I=Rx	I=Rx*(CT1/CT2)	A	Float	R
4016H-4017H	16406-16407	IL3	Total Phase C Current	I=Rx	I=Rx*(CT1/CT2)	A	Float	R
4018H-4019H	16408-16409	Iavg	Average Phase Current	I=Rx	I=Rx*(CT1/CT2)	A	Float	R
401AH-401BH	16410-16411	In	Neutral Current	I=Rx	I=Rx*(CT1/CT2)	A	Float	R
401CH-401DH	16412-16413	Pa	Phase A Power	P=Rx/1000	P=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kW	Float	R
401EH-401FH	16414-16415	Pb	Phase B Power	P=Rx/1000	P=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kW	Float	R
4020H-4021H	16416-16417	Pc	Phase C Power	P=Rx/1000	P=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kW	Float	R
4022H-4023H	16418-16419	Psum	Total System Power	P=Rx/1000	P=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kW	Float	R
4024H-4025H	16420-16421	Qa	Phase A Reactive Power	Q=Rx/1000	Q=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kvar	Float	R

Address (H)	Address (D)	Symbol	Parameter	Parameter Mode		Property	Data Type	Access Property
				Primary Mode	Secondary Mode			
4026H-4027H	16422-16423	Qb	Phase B Reactive Power	Q=Rx/1000	Q=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kvar	Float	R
4028H-4029H	16424-16425	Qc	Phase C Reactive Power	Q=Rx/1000	Q=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kvar	Float	R
402AH-402BH	16426-16427	Qsum	Total Reactive Power	Q=Rx/1000	Q=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kvar	Float	R
402CH-402DH	16428-16429	Sa	Phase A Apparent Power	S=Rx/1000	S=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kVA	Float	R
402EH-402FH	16430-16431	Sb	Phase B Apparent Power	S=Rx/1000	S=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kVA	Float	R
4030H-4031H	16432-16433	Sc	Phase C Apparent Power	S=Rx/1000	S=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kVA	Float	R
4032H-4033H	16434-16435	Ssum	Total Apparent Power	S=Rx/1000	S=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kVA	Float	R
4034H-4035H	16436-16437	PFa	Phase A Power Factor	PF=Rx	PF=Rx	No Unit	Float	R
4036H-4037H	16438-16439	PFb	Phase B Power Factor	PF=Rx	PF=Rx	No Unit	Float	R
4038H-4039H	16440-16441	PFc	Phase C Power Factor	PF=Rx	PF=Rx	No Unit	Float	R
403AH-403BH	16442-16443	PFsum	Total Power Factor	PF=Rx	PF=Rx	No Unit	Float	R
403CH-403DH	16444-16445	U_unbl	Voltage Unbalance	U=Rx*100%	U=Rx*100%	%	Float	R
403EH-403FH	16446-16447	I_unbl	Current Unbalance	I=Rx*100%	I=Rx*100%	%	Float	R
4040H-4041H	16448-16449	L/C/R	Load Characteristic	76.0(L) 67.0(C) 82.0(R)	76.0(L) 67.0(C) 82.0(R)		Float	R
4042H-4043H	16450-16451	P_Dmd	Power Demand	P=Rx/1000	P=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kW	Float	R
4044H-4045H	16452-16453	Q_Dmd	Reactive Power Demand	S=Rx/1000	S=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kVA	Float	R
4046H-4047H	16454-16455	S_Dmd	Apparent Power Demand	Q=Rx/1000	Q=[Rx*(PT1/PT2)*(CT1/CT2)]/1000	kvar	Float	R
4600H-4601H	17920-17921	I1_Dmd	Phase A Current Demand	I=Rx	I=Rx*(CT1/CT2)	A	Float	R
4602H-4603H	17922-17923	I2_Dmd	Phase B Current Demand	I=Rx	I=Rx*(CT1/CT2)	A	Float	R
4604H-4605H	17924-17925	I3_Dmd	Phase C Current Demand	I=Rx	I=Rx*(CT1/CT2)	A	Float	R

Energy Parameters

NOTE:The Energy Display option of either Primary Mode or Secondary Mode corresponds to the Energy Display Mode (at address 1019H) in the system parameter settings. You can also configure the energy display mode from the 'S24 E SEL' in the system settings through the meters display.The energy display mode is in Primary Mode by default.

Energy Measurements: 03H Read									
Address (H)	Address (D)	Symbol	Parameter	Energy Display Mode		Range	Property	Data Type	Access Property
				Primary Mode	Secondary Mode				
4048H-4049H	16456-16457	Ep_Imp	Consumed Energy	Ep_Imp=Rx/10	Ep_Imp=Rx/1000	0~999999999	kWh	Dword	R/W
404AH-404BH	16458-16459	Ep_Exp	Generated Energy	Ep_Exp=Rx/10	Ep_Exp=Rx/1000	0~999999999	kWh	Dword	R/W
404CH-404DH	16460-16461	Eq_Imp	Consumed Reactice Energy	Eq_Imp=Rx/10	Eq_Imp=Rx/1000	0~999999999	kvarh	Dword	R/W
404EH-404FH	16462-16463	Eq_Exp	Generated Reactive Energy	Eq_Exp=Rx/10	Eq_Exp=Rx/1000	0~999999999	kvarh	Dword	R/W
4050H-4051H	16464-16465	Ep_sum	Total Energy	Ep_sum=Rx/10	Ep_sum=Rx/1000	0~999999999	kWh	Dword	R/W
4052H-4053H	16466-16467	Ep_net	Net Energy	Ep_net=Rx/10	Ep_net=Rx/1000	±999999999	kWh	Dword	R/W
4054H-4055H	16468-16469	Eq_sum	Total Reactive Energy	Eq_sum=Rx/10	Eq_sum=Rx/1000	0~999999999	kvarh	Dword	R/W
4056H-4057H	16470-16471	Eq_net	Net Reactive Energy	Eq_net=Rx/10	Eq_net=Rx/1000	±999999999	kvarh	Dword	R/W
4058H-4059H	16472-16473	Es	Apparent Energy	Es=Rx/10	Es=Rx/1000	0~999999999	kVAh	Dword	R/W
4620H-4621H	17952-17953	Epa_Imp	Phase A Consumed Energy	Epa_Imp=Rx/10	Epa_Imp=Rx/1000	0~999999999	kWh	Dword	R/W
4622H-4623H	17954-17955	Epa_Exp	Phase A Generated Energy	Epa_Exp=Rx/10	Epa_Exp=Rx/1000	0~999999999	kWh	Dword	R/W
4624H-4625H	17956-17957	Epb_Imp	Phase B Consumed Energy	Epb_Imp=Rx/10	Epb_Imp=Rx/1000	0~999999999	kWh	Dword	R/W
4626H-4627H	17958-17959	Epb_Exp	Phase B Generated Energy	Epb_Exp=Rx/10	Epb_Exp=Rx/1000	0~999999999	kWh	Dword	R/W
4628H-4629H	17960-17961	Epc_Imp	Phase C Consumed Energy	Epc_Imp=Rx/10	Epc_Imp=Rx/1000	0~999999999	kWh	Dword	R/W
462AH-462BH	17962-17963	Epc_Exp	Phase C Generated Energy	Epc_Exp=Rx/10	Epc_Exp=Rx/1000	0~999999999	kWh	Dword	R/W
462CH-462DH	17964-17965	Eqa_Imp	Phase A Consumed Reactive Energy	Eqa_Imp=Rx/10	Eqa_Imp=Rx/1000	0~999999999	kvarh	Dword	R/W

Energy Measurements: 03H Read									
Address (H)	Address (D)	Symbol	Parameter	Energy Display Mode		Range	Property	Data Type	Access Property
				Primary Mode	Secondary Mode				
462EH-462FH	17966-17967	Eqa_Exp	Phase A Generated Reactive Energy	Eqa_Exp=Rx/10	Eqa_Exp=Rx/1000	0~999999999	kvarh	Dword	R/W
4630H-4631H	17968-17969	Eqb_Imp	Phase B Consumed Reactive Energy	Eqb_Imp=Rx/10	Eqb_Imp=Rx/1000	0~999999999	kvarh	Dword	R/W
4632H-4633H	17970-17971	Eqb_Exp	Phase B Generated Reactive Energy	Eqb_Exp=Rx/10	Eqb_Exp=Rx/1000	0~999999999	kvarh	Dword	R/W
4634H-4635H	17972-17973	Eqc_Imp	Phase C Consumed Reactive Energy	Eqc_Imp=Rx/10	Eqc_Imp=Rx/1000	0~999999999	kvarh	Dword	R/W
4636H-4637H	17974-17975	Eqc_Exp	Phase C Generated Reactive Energy	Eqc_Exp=Rx/10	Eqc_Exp=Rx/1000	0~999999999	kvarh	Dword	R/W
4638H-4639H	17976-17977	Esa	Phase A Apparent Energy	Esa=Rx/10	Esa=Rx/1000	0~999999999	kVA	Dword	R/W
463AH-463BH	17978-17979	Esb	Phase B Apparent Energy	Esb=Rx/10	Esb=Rx/1000	0~999999999	kVA	Dword	R/W
463CH-463DH	17980-17981	Esc	Phase C Apparent Energy	Esc=Rx/10	Esc=Rx/1000	0~999999999	kVA	Dword	R/W

Harmonics

Power Quality: 03H Read							
Address(H)	Address(D)	Parameter	Relationship	Property	Range	Data Type	Access Property
405AH	16474	THD_V1(V12)	THD=Rx/100	%	≥0	Word	R
405BH	16475	THD_V2(V31)	THD=Rx/100	%	≥0	Word	R
405CH	16476	THD_V3(V23)	THD=Rx/100	%	≥0	Word	R
405DH	16477	THD_avg	THD=Rx/100	%	≥0	Word	R
405EH	16478	THD_I1	THD=Rx/100	%	≥0	Word	R
405FH	16479	THD_I2	THD=Rx/100	%	≥0	Word	R
4060H	16480	THD_I3	THD=Rx/100	%	≥0	Word	R
4061H	16481	THD_Iavg	THD=Rx/100	%	≥0	Word	R

Voltage V1 (V12) Harmonics

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4062H	16482	V1(V12) 2nd Harmonic	THD=Rx/100	%	≥0	Word	R
4063H	16483	V1(V12) 3rd Harmonic	THD=Rx/100	%	≥0	Word	R
4064H	16484	V1(V12) 4th Harmonic	THD=Rx/100	%	≥0	Word	R
4065H	16485	V1(V12) 5th Harmonic	THD=Rx/100	%	≥0	Word	R
4066H	16486	V1(V12) 6th Harmonic	THD=Rx/100	%	≥0	Word	R
4067H	16487	V1(V12) 7th Harmonic	THD=Rx/100	%	≥0	Word	R
4068H	16488	V1(V12) 8th Harmonic	THD=Rx/100	%	≥0	Word	R
4069H	16489	V1(V12) 9th Harmonic	THD=Rx/100	%	≥0	Word	R
406AH	16490	V1(V12) 10th Harmonic	THD=Rx/100	%	≥0	Word	R
406BH	16491	V1(V12) 11th Harmonic	THD=Rx/100	%	≥0	Word	R
406CH	16492	V1(V12) 12th Harmonic	THD=Rx/100	%	≥0	Word	R
406DH	16493	V1(V12) 13th Harmonic	THD=Rx/100	%	≥0	Word	R
406EH	16494	V1(V12) 14th Harmonic	THD=Rx/100	%	≥0	Word	R
406FH	16495	V1(V12) 15th Harmonic	THD=Rx/100	%	≥0	Word	R
4070H	16496	V1(V12) 16th Harmonic	THD=Rx/100	%	≥0	Word	R
4071H	16497	V1(V12) 17th Harmonic	THD=Rx/100	%	≥0	Word	R
4072H	16498	V1(V12) 18th Harmonic	THD=Rx/100	%	≥0	Word	R
4073H	16499	V1(V12) 19th Harmonic	THD=Rx/100	%	≥0	Word	R
4074H	16500	V1(V12) 20th Harmonic	THD=Rx/100	%	≥0	Word	R
4075H	16501	V1(V12) 21st Harmonic	THD=Rx/100	%	≥0	Word	R
4076H	16502	V1(V12) 22nd Harmonic	THD=Rx/100	%	≥0	Word	R
4077H	16503	V1(V12) 23rd Harmonic	THD=Rx/100	%	≥0	Word	R
4078H	16504	V1(V12) 24th Harmonic	THD=Rx/100	%	≥0	Word	R
4079H	16505	V1(V12) 25th Harmonic	THD=Rx/100	%	≥0	Word	R
407AH	16506	V1(V12) 26th Harmonic	THD=Rx/100	%	≥0	Word	R
407BH	16507	V1(V12) 27th Harmonic	THD=Rx/100	%	≥0	Word	R
407CH	16508	V1(V12) 28th Harmonic	THD=Rx/100	%	≥0	Word	R
407DH	16509	V1(V12) 29th Harmonic	THD=Rx/100	%	≥0	Word	R
407EH	16510	V1(V12) 30th Harmonic	THD=Rx/100	%	≥0	Word	R
407FH	16511	V1(V12) 31st Harmonic	THD=Rx/100	%	≥0	Word	R
4500H	17664	V1(V12) 32nd Harmonic	THD=Rx/100	%	≥0	Word	R
4501H	17665	V1(V12) 33rd Harmonic	THD=Rx/100	%	≥0	Word	R

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4502H	17666	V1(V12) 34th Harmonic	THD=Rx/100	%	≥0	Word	R
4503H	17667	V1(V12) 35th Harmonic	THD=Rx/100	%	≥0	Word	R
4504H	17668	V1(V12) 36th Harmonic	THD=Rx/100	%	≥0	Word	R
4505H	17669	V1(V12) 37th Harmonic	THD=Rx/100	%	≥0	Word	R
4506H	17670	V1(V12) 38th Harmonic	THD=Rx/100	%	≥0	Word	R
4507H	17671	V1(V12) 39th Harmonic	THD=Rx/100	%	≥0	Word	R
4508H	17672	V1(V12) 40th Harmonic	THD=Rx/100	%	≥0	Word	R
4509H	17673	V1(V12) 41st Harmonic	THD=Rx/100	%	≥0	Word	R
450AH	17674	V1(V12) 42nd Harmonic	THD=Rx/100	%	≥0	Word	R
450BH	17675	V1(V12) 43rd Harmonic	THD=Rx/100	%	≥0	Word	R
450CH	17676	V1(V12) 44th Harmonic	THD=Rx/100	%	≥0	Word	R
450DH	17677	V1(V12) 45th Harmonic	THD=Rx/100	%	≥0	Word	R
450EH	17678	V1(V12) 46th Harmonic	THD=Rx/100	%	≥0	Word	R
450FH	17679	V1(V12) 47th Harmonic	THD=Rx/100	%	≥0	Word	R
4510H	17680	V1(V12) 48th Harmonic	THD=Rx/100	%	≥0	Word	R
4511H	17681	V1(V12) 49th Harmonic	THD=Rx/100	%	≥0	Word	R
4512H	17682	V1(V12) 50th Harmonic	THD=Rx/100	%	≥0	Word	R
4513H	17683	V1(V12) 51st Harmonic	THD=Rx/100	%	≥0	Word	R
4514H	17684	V1(V12) 52nd Harmonic	THD=Rx/100	%	≥0	Word	R
4515H	17685	V1(V12) 53rd Harmonic	THD=Rx/100	%	≥0	Word	R
4516H	17686	V1(V12) 54th Harmonic	THD=Rx/100	%	≥0	Word	R
4517H	17687	V1(V12) 55th Harmonic	THD=Rx/100	%	≥0	Word	R
4518H	17688	V1(V12) 56th Harmonic	THD=Rx/100	%	≥0	Word	R
4519H	17689	V1(V12) 57th Harmonic	THD=Rx/100	%	≥0	Word	R
451AH	17690	V1(V12) 58th Harmonic	THD=Rx/100	%	≥0	Word	R
451BH	17691	V1(V12) 59th Harmonic	THD=Rx/100	%	≥0	Word	R
451CH	17692	V1(V12) 60th Harmonic	THD=Rx/100	%	≥0	Word	R
451DH	17693	V1(V12) 61st Harmonic	THD=Rx/100	%	≥0	Word	R
451EH	17694	V1(V12) 62nd Harmonic	THD=Rx/100	%	≥0	Word	R
451FH	17695	V1(V12) 63rd Harmonic	THD=Rx/100	%	≥0	Word	R
4080H	16512	Odd THD_V1(V12)	THD=Rx/100	%	≥0	Word	R

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4081H	16513	Even THD_V1(V12)	THD=Rx/100	%	≥0	Word	R
4082H	16514	Crest Factor V1(V12)	CF=Rx/100	%	0~65535	Word	R
4083H	16515	THFF_V1(V12)	THFF=Rx/100	%	≥0	Word	R

Voltage V2(V31) Harmonics

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4084H	16516	V2(V31) 2nd Harmonic	THD=Rx/100	%	≥0	Word	R
4085H	16517	V2(V31) 3rd Harmonic	THD=Rx/100	%	≥0	Word	R
4086H	16518	V2(V31) 4th Harmonic	THD=Rx/100	%	≥0	Word	R
4087H	16519	V2(V31) 5th Harmonic	THD=Rx/100	%	≥0	Word	R
4088H	16520	V2(V31) 6th Harmonic	THD=Rx/100	%	≥0	Word	R
4089H	16521	V2(V31) 7th Harmonic	THD=Rx/100	%	≥0	Word	R
408AH	16522	V2(V31) 8th Harmonic	THD=Rx/100	%	≥0	Word	R
408BH	16523	V2(V31) 9th Harmonic	THD=Rx/100	%	≥0	Word	R
408CH	16524	V2(V31) 10th Harmonic	THD=Rx/100	%	≥0	Word	R
408DH	16525	V2(V31) 11th Harmonic	THD=Rx/100	%	≥0	Word	R
408EH	16526	V2(V31) 12th Harmonic	THD=Rx/100	%	≥0	Word	R
408FH	16527	V2(V31) 13th Harmonic	THD=Rx/100	%	≥0	Word	R
4090H	16528	V2(V31) 14th Harmonic	THD=Rx/100	%	≥0	Word	R
4091H	16529	V2(V31) 15th Harmonic	THD=Rx/100	%	≥0	Word	R
4092H	16530	V2(V31) 16th Harmonic	THD=Rx/100	%	≥0	Word	R
4093H	16531	V2(V31) 17th Harmonic	THD=Rx/100	%	≥0	Word	R
4094H	16532	V2(V31) 18th Harmonic	THD=Rx/100	%	≥0	Word	R
4095H	16533	V2(V31) 19th Harmonic	THD=Rx/100	%	≥0	Word	R
4096H	16534	V2(V31) 20th Harmonic	THD=Rx/100	%	≥0	Word	R
4097H	16535	V2(V31) 21th Harmonic	THD=Rx/100	%	≥0	Word	R
4098H	16536	V2(V31) 22th Harmonic	THD=Rx/100	%	≥0	Word	R
4099H	16537	V2(V31) 23rd Harmonic	THD=Rx/100	%	≥0	Word	R
409AH	16538	V2(V31) 24th Harmonic	THD=Rx/100	%	≥0	Word	R
409BH	16539	V2(V31) 25th Harmonic	THD=Rx/100	%	≥0	Word	R
409CH	16540	V2(V31) 26th Harmonic	THD=Rx/100	%	≥0	Word	R
409DH	16541	V2(V31) 27th Harmonic	THD=Rx/100	%	≥0	Word	R

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
409EH	16542	V2(V31) 28th Harmonic	THD=Rx/100	%	≥0	Word	R
409FH	16543	V2(V31) 29th Harmonic	THD=Rx/100	%	≥0	Word	R
40A0H	16544	V2(V31) 30th Harmonic	THD=Rx/100	%	≥0	Word	R
40A1H	16545	V2(V31) 31st Harmonic	THD=Rx/100	%	≥0	Word	R
4520H	17696	V2(V31) 32nd Harmonic	THD=Rx/100	%	≥0	Word	R
4521H	17697	V2(V31) 33rd Harmonic	THD=Rx/100	%	≥0	Word	R
4522H	17698	V2(V31) 34th Harmonic	THD=Rx/100	%	≥0	Word	R
4523H	17699	V2(V31) 35th Harmonic	THD=Rx/100	%	≥0	Word	R
4524H	17700	V2(V31) 36th Harmonic	THD=Rx/100	%	≥0	Word	R
4525H	17701	V2(V31) 37th Harmonic	THD=Rx/100	%	≥0	Word	R
4526H	17702	V2(V31) 38th Harmonic	THD=Rx/100	%	≥0	Word	R
4527H	17703	V2(V31) 39th Harmonic	THD=Rx/100	%	≥0	Word	R
4528H	17704	V2(V31) 40th Harmonic	THD=Rx/100	%	≥0	Word	R
4529H	17705	V2(V31) 41st Harmonic	THD=Rx/100	%	≥0	Word	R
452AH	17706	V2(V31) 42nd Harmonic	THD=Rx/100	%	≥0	Word	R
452BH	17707	V2(V31) 43rd Harmonic	THD=Rx/100	%	≥0	Word	R
452CH	17708	V2(V31) 44th Harmonic	THD=Rx/100	%	≥0	Word	R
425DH	17709	V2(V31) 45th Harmonic	THD=Rx/100	%	≥0	Word	R
452EH	17710	V2(V31) 46th Harmonic	THD=Rx/100	%	≥0	Word	R
452FH	17711	V2(V31) 47th Harmonic	THD=Rx/100	%	≥0	Word	R
4530H	17712	V2(V31) 48th Harmonic	THD=Rx/100	%	≥0	Word	R
4531H	17713	V2(V31) 49th Harmonic	THD=Rx/100	%	≥0	Word	R
4532H	17714	V2(V31) 50th Harmonic	THD=Rx/100	%	≥0	Word	R
4533H	17715	V2(V31) 51st Harmonic	THD=Rx/100	%	≥0	Word	R
4534H	17716	V2(V31) 52nd Harmonic	THD=Rx/100	%	≥0	Word	R
4535H	17717	V2(V31) 53rd Harmonic	THD=Rx/100	%	≥0	Word	R
4536H	17718	V2(V31) 54th Harmonic	THD=Rx/100	%	≥0	Word	R
4537H	17719	V2(V31) 55th Harmonic	THD=Rx/100	%	≥0	Word	R
4538H	17720	V2(V31) 56th Harmonicc	THD=Rx/100	%	≥0	Word	R
4539H	17721	V2(V31) 57th Harmonic	THD=Rx/100	%	≥0	Word	R
453AH	17722	V2(V31) 58th Harmonic	THD=Rx/100	%	≥0	Word	R
453BH	17723	V2(V31) 59th Harmonic	THD=Rx/100	%	≥0	Word	R
453CH	17724	V2(V31) 60th Harmonic	THD=Rx/100	%	≥0	Word	R

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
453DH	17725	V2(V31) 61st Harmonic	THD=Rx/100	%	≥0	Word	R
453EH	17726	V2(V31) 62nd Harmonic	THD=Rx/100	%	≥0	Word	R
453FH	17727	V2(V31) 63rd Harmonic	THD=Rx/100	%	≥0	Word	R
40A2H	16546	Odd THD_V2(V31)	THD=Rx/100	%	≥0	Word	R
40A3H	16547	Even THD_V2(V31)	THD=Rx/100	%	≥0	Word	R
40A4H	16548	Crest Factor V2(V31)	THD=Rx/100	%	≥0	Word	R
40A5H	16549	THFF_V2(V31)	THFF=Rx/100	%	≥0	Word	R

Voltage V3(V23) Harmonics

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
40A6H	16550	V3(V23) 2nd Harmonic	THD=Rx/100	%	≥0	Word	R
40A7H	16551	V3(V23) 3rd Harmonic	THD= Rx/100	%	≥0	Word	R
40A8H	16552	V3(V23) 4th Harmonic	THD=Rx/100	%	≥0	Word	R
40A9H	16553	V3(V23) 5th Harmonic	THD=Rx/100	%	≥0	Word	R
40AAH	16554	V3(V23) 6th Harmonic	THD=Rx/100	%	≥0	Word	R
40ABH	16555	V3(V23) 7th Harmonic	THD=Rx/100	%	≥0	Word	R
40ACH	16556	V3(V23) 8th Harmonic	THD=Rx/100	%	≥0	Word	R
40ADH	16557	V3(V23) 9th Harmonic	THD=Rx/100	%	≥0	Word	R
40AEH	16558	V3(V23) 10th Harmonic	THD=Rx/100	%	≥0	Word	R
40AFH	16559	V3(V23) 11th Harmonic	THD=Rx/100	%	≥0	Word	R
40B0H	16560	V3(V23) 12th Harmonic	THD=Rx/100	%	≥0	Word	R
40B1H	16561	V3(V23) 13th Harmonic	THD=Rx/100	%	≥0	Word	R
40B2H	16562	V3(V23) 14th Harmonic	THD=Rx/100	%	≥0	Word	R
40B3H	16563	V3(V23) 15th Harmonic	THD=Rx/100	%	≥0	Word	R
40B4H	16564	V3(V23) 16th Harmonic	THD=Rx/100	%	≥0	Word	R
40B5H	16565	V3(V23) 17th Harmonic	THD=Rx/100	%	≥0	Word	R
40B6H	16566	V3(V23) 18th Harmonic	THD=Rx/100	%	≥0	Word	R
40B7H	16567	V3(V23) 19th Harmonic	THD=Rx/100	%	≥0	Word	R
40B8H	16568	V3(V23) 20th Harmonic	THD=Rx/100	%	≥0	Word	R
40B9H	16569	V3(V23) 21st Harmonic	THD=Rx/100	%	≥0	Word	R
40BAH	16570	V3(V23) 22nd Harmonic	THD=Rx/100	%	≥0	Word	R
40BBH	16571	V3(V23) 23rd Harmonic	THD=Rx/100	%	≥0	Word	R

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
40BCH	16572	V3(V23) 24th Harmonic	THD=Rx/100	%	≥0	Word	R
40BDH	16573	V3(V23) 25th Harmonic	THD=Rx/100	%	≥0	Word	R
40BEH	16574	V3(V23) 26th Harmonic	THD=Rx/100	%	≥0	Word	R
40BFH	16575	V3(V23) 27th Harmonic	THD=Rx/100	%	≥0	Word	R
40C0H	16576	V3(V23) 28th Harmonic	THD=Rx/100	%	≥0	Word	R
40C1H	16577	V3(V23) 29th Harmonic	THD=Rx/100	%	≥0	Word	R
40C2H	16578	V3(V23) 30th Harmonic	THD=Rx/100	%	≥0	Word	R
40C3H	16579	V3(V23) 31st Harmonic	THD=Rx/100	%	≥0	Word	R
4540H	17728	V3(V23) 32nd Harmonic	THD=Rx/100	%	≥0	Word	R
4541H	17729	V3(V23) 33rd Harmonic	THD=Rx/100	%	≥0	Word	R
4542H	17730	V3(V23) 34th Harmonic	THD=Rx/100	%	≥0	Word	R
4543H	17731	V3(V23) 35th Harmonic	THD=Rx/100	%	≥0	Word	R
4544H	17732	V3(V23) 36th Harmonic	THD=Rx/100	%	≥0	Word	R
4545H	17733	V3(V23) 37th Harmonic	THD=Rx/100	%	≥0	Word	R
4546H	17734	V3(V23) 38th Harmonic	THD=Rx/100	%	≥0	Word	R
4547H	17735	V3(V23) 39th Harmonic	THD=Rx/100	%	≥0	Word	R
4548H	17736	V3(V23) 40th Harmonic	THD=Rx/100	%	≥0	Word	R
4549H	17737	V3(V23) 41st Harmonic	THD=Rx/100	%	≥0	Word	R
454AH	17738	V3(V23) 42nd Harmonic	THD=Rx/100	%	≥0	Word	R
454BH	17739	V3(V23) 43rd Harmonic	THD=Rx/100	%	≥0	Word	R
454CH	17740	V3(V23) 44th Harmonic	THD=Rx/100	%	≥0	Word	R
454DH	17741	V3(V23) 45th Harmonic	THD=Rx/100	%	≥0	Word	R
454EH	17742	V3(V23) 46th Harmonic	THD=Rx/100	%	≥0	Word	R
454FH	17743	V3(V23) 47th Harmonic	THD=Rx/100	%	≥0	Word	R
4550H	17744	V3(V23) 48th Harmonic	THD=Rx/100	%	≥0	Word	R
4551H	17745	V3(V23) 49th Harmonic	THD=Rx/100	%	≥0	Word	R
4552H	17746	V3(V23) 50th Harmonic	THD=Rx/100	%	≥0	Word	R
4553H	17747	V3(V23) 51st Harmonic	THD=Rx/100	%	≥0	Word	R
4554H	17748	V3(V23) 52nd Harmonic	THD=Rx/100	%	≥0	Word	R
4555H	17749	V3(V23) 53rd Harmonic	THD=Rx.100	%	≥0	Word	R
4556H	17750	V3(V23) 54th Harmonic	THD=Rx/100	%	≥0	Word	R
4557H	17751	V3(V23) 55th Harmonic	THD=Rx/100	%	≥0	Word	R

Voltage Harmonics, Even & Odd Harmonics, Crest Factor: 03H							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4558H	17752	V3(V23) 56th Harmonic	THD=Rx/100	%	≥0	Word	R
4559H	17753	V3(V23) 57th Harmonic	THD=Rx/100	%	≥0	Word	R
455AH	17754	V3(V23) 58th Harmonic	THD=Rx/100	%	≥0	Word	R
455BH	17755	V3(V23) 59th Harmonic	THD=Rx/100	%	≥0	Word	R
455CH	17756	V3(V23) 60th Harmonic	THD=Rx/100	%	≥0	Word	R
455DH	17757	V3(V23) 61st Harmonic	THD=Rx/100	%	≥0	Word	R
455EH	17758	V3(V23) 62nd Harmonic	THD=Rx/100	%	≥0	Word	R
455FH	17759	V3(V23) 63rd Harmonic	THD=Rx/100	%	≥0	Word	R
40C4H	16580	Odd THD_V3(V23)	THD=Rx/100	%	≥0	Word	R
40C5H	16581	Even THD_V3(V23)	THD=Rx/100	%	≥0	Word	R
40C6H	16582	Crest Factor V3(V23)	CF=Rx/100	%	0~65535	Word	R
40C7H	16583	THDD_V3(V23)	THFF=Rx/100	%	≥0	Word	R

I1 Current Harmonics

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
40C8H	16584	I1 2nd Harmonic	THD=Rx/100	%	≥0	Word	R
40C9H	16585	I1 3rd Harmonic	THD=Rx/100	%	≥0	Word	R
40CAH	16586	I1 4th Harmonic	THD=Rx/100	%	≥0	Word	R
40CBH	16587	I1 5th Harmonic	THD=Rx/100	%	≥0	Word	R
40CCH	16588	I1 6th Harmonic	THD=Rx/100	%	≥0	Word	R
40CDH	16589	I1 7th Harmonic	THD=Rx/100	%	≥0	Word	R
40CEH	16590	I1 8th Harmonic	THD=Rx/100	%	≥0	Word	R
40CFH	16591	I1 9th Harmonic	THD=Rx/100	%	≥0	Word	R
40D0H	16592	I1 10th Harmonic	THD=Rx/100	%	≥0	Word	R
40D1H	16593	I1 11th Harmonic	THD=Rx/100	%	≥0	Word	R
40D2H	16594	I1 12th Harmonic	THD=Rx/100	%	≥0	Word	R
40D3H	16595	I1 13th Harmonic	THD=Rx/100	%	≥0	Word	R
40D4H	16596	I1 14th Harmonic	THD=Rx/100	%	≥0	Word	R
40D5H	16597	I1 15th Harmonic	THD=Rx/100	%	≥0	Word	R
40D6H	16598	I1 16th Harmonic	THD=Rx/100	%	≥0	Word	R
40D7H	16599	I1 17th Harmonic	THD=Rx/100	%	≥0	Word	R

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
40D8H	16600	I1 18th Harmonic	THD=Rx/100	%	≥0	Word	R
40D9H	16601	I1 19th Harmonic	THD=Rx/100	%	≥0	Word	R
40DAH	16602	I1 20th Harmonic	THD=Rx/100	%	≥0	Word	R
40DBH	16603	I1 21st Harmonic	THD=Rx/100	%	≥0	Word	R
40DCH	16604	I1 22nd Harmonic	THD=Rx/100	%	≥0	Word	R
40DDH	16605	I1 23rd Harmonic	THD=Rx/100	%	≥0	Word	R
40DEH	16606	I1 24th Harmonic	THD=Rx/100	%	≥0	Word	R
40DFH	16607	I1 25th Harmonic	THD=Rx/100	%	≥0	Word	R
40E0H	16608	I1 26th Harmonic	THD=Rx/100	%	≥0	Word	R
40E1H	16609	I1 27th Harmonic	THD=Rx/100	%	≥0	Word	R
40E2H	16610	I1 28th Harmonic	THD=Rx/100	%	≥0	Word	R
40E3H	16611	I1 29th Harmonic	THD=Rx/100	%	≥0	Word	R
40E4H	16612	I1 30th Harmonic	THD=Rx/100	%	≥0	Word	R
40E5H	16613	I1 31st Harmonic	THD=Rx/100	%	≥0	Word	R
4560H	17760	I1 32nd Harmonic	THD=Rx/100	%	≥0	Word	R
4561H	17762	I1 33rd Harmonic	THD=Rx/100	%	≥0	Word	R
4562H	17763	I1 34th Harmonic	THD=Rx/100	%	≥0	Word	R
4563H	17764	I1 35th Harmonic	THD=Rx/100	%	≥0	Word	R
4564H	17765	I1 36th Harmonic	THD=Rx/100	%	≥0	Word	R
4565H	17765	I1 37th Harmonic	THD=Rx/100	%	≥0	Word	R
4566H	17766	I1 38th Harmonic	THD=Rx/100	%	≥0	Word	R
4567H	17767	I1 39th Harmonic	THD=Rx/100	%	≥0	Word	R
4568H	17768	I1 40th Harmonic	THD=Rx/100	%	≥0	Word	R
4569H	17769	I1 41st Harmonic	THD=Rx/100	%	≥0	Word	R
456AH	17770	I1 42nd Harmonic	THD=Rx/100	%	≥0	Word	R
456BH	17771	I1 43rd Harmonic	THD=Rx/100	%	≥0	Word	R
456CH	17772	I1 44th Harmonic	THD=Rx/100	%	≥0	Word	R
456DH	17773	I1 45th Harmonic	THD=Rx/100	%	≥0	Word	R
456EH	17774	I1 46th Harmonic	THD=Rx/100	%	≥0	Word	R
456FH	17775	I1 47th Harmonic	THD=Rx/100	%	≥0	Word	R
4570H	17776	I1 48th Harmonic	THD=Rx/100	%	≥0	Word	R
4571H	17777	I1 49th Harmonic	THD=Rx/100	%	≥0	Word	R

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4572H	17778	I1 50th Harmonic	THD=Rx/100	%	≥0	Word	R
4573H	17779	I1 51st Harmonic	THD=Rx/100	%	≥0	Word	R
4574H	17780	I1 52nd Harmonic	THD=Rx/100	%	≥0	Word	R
4575H	17781	I1 53rd Harmonic	THD=Rx/100	%	≥0	Word	R
4576H	17782	I1 54th Harmonic	THD=Rx/100	%	≥0	Word	R
4577H	17783	I1 55th Harmonic	THD=Rx/100	%	≥0	Word	R
4578H	17784	I1 56th Harmonic	THD=Rx/100	%	≥0	Word	R
4579H	17785	I1 57th Harmonic	THD=Rx/100	%	≥0	Word	R
457AH	17786	I1 58th Harmonic	THD=Rx/100	%	≥0	Word	R
457BH	17787	I1 59th Harmonic	THD=Rx/100	%	≥0	Word	R
457CH	17788	I1 60th Harmonic	THD=Rx/100	%	≥0	Word	R
457DH	17789	I1 61st Harmonic	THD=Rx/100	%	≥0	Word	R
457EH	17790	I1 62nd Harmonic	THD=Rx/100	%	≥0	Word	R
457FH	17791	I1 63rd Harmonic	THD=Rx/100	%	≥0	Word	R
40E6H	16614	Odd THD_I1	THD=Rx/100	%	≥0	Word	R
40E7H	16615	Even_THD_I1	THD=Rx/100	%	≥0	Word	R
40E8H	16616	K Factor of I1	CF=Rx/100	%	≥0	Word	R

I2 Current Harmonics

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
40E9H	16617	I2 2nd Harmonic	THD=Rx/100	%	≥0	Word	R
40EAH	16618	I2 3rd Harmonic	THD=Rx/100	%	≥0	Word	R
40EBH	16619	I2 4th Harmonic	THD=Rx/100	%	≥0	Word	R
40ECH	16620	I2 5th Harmonic	THD=Rx/100	%	≥0	Word	R
40EDH	16621	I2 6th Harmonic	THD=Rx/100	%	≥0	Word	R
40EEH	16622	I2 7th Harmonic	THD=Rx/100	%	≥0	Word	R
40EFH	16623	I2 8th Harmonic	THD=Rx/100	%	≥0	Word	R
40F0H	16624	I2 9th Harmonic	THD=Rx/100	%	≥0	Word	R
40F1H	16625	I2 10th Harmonic	THD=Rx/100	%	≥0	Word	R
40F2H	16626	I2 11th Harmonic	THD=Rx/100	%	≥0	Word	R
40F3H	16627	I2 12th Harmonic	THD=Rx/100	%	≥0	Word	R

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
40F4H	16628	I2 13th Harmonic	THD=Rx/100	%	≥0	Word	R
40F5H	16629	I2 14th Harmonic	THD=Rx/100	%	≥0	Word	R
40F6H	16630	I2 15th Harmonic	THD=Rx/100	%	≥0	Word	R
40F7H	16631	I2 16th Harmonic	THD=Rx/100	%	≥0	Word	R
40F8H	16632	I2 17th Harmonic	THD=Rx/100	%	≥0	Word	R
40F9H	16633	I2 18th Harmonic	THD=Rx/100	%	≥0	Word	R
40FAH	16634	I2 19th Harmonic	THD=Rx/100	%	≥0	Word	R
40FBH	16635	I2 20th Harmonic	THD=Rx/100	%	≥0	Word	R
40FCH	16636	I2 21st Harmonic	THD=Rx/100	%	≥0	Word	R
40FDH	16637	I2 22nd Harmonic	THD=Rx/100	%	≥0	Word	R
40FEH	16638	I2 23rd Harmonic	THD=Rx/100	%	≥0	Word	R
40FFH	16639	I2 24th Harmonic	THD=Rx/100	%	≥0	Word	R
4100H	16640	I2 25th Harmonic	THD=Rx/100	%	≥0	Word	R
4101H	16641	I2 26th Harmonic	THD=Rx/100	%	≥0	Word	R
4102H	16642	I2 27th Harmonic	THD=Rx/100	%	≥0	Word	R
4103H	16643	I2 28th Harmonic	THD=Rx/100	%	≥0	Word	R
4104H	16644	I2 29th Harmonic	THD=Rx/100	%	≥0	Word	R
4105H	16645	I2 30th Harmonic	THD=Rx/100	%	≥0	Word	R
4106H	16646	I2 31st Harmonic	THD=Rx/100	%	≥0	Word	R
4580H	17792	I2 32nd Harmonic	THD=Rx/100	%	≥0	Word	R
4581H	17793	I2 33rd Harmonic	THD=Rx/100	%	≥0	Word	R
4582H	17794	I2 34th Harmonic	THD=Rx/100	%	≥0	Word	R
4583H	17795	I2 35th Harmonic	THD=Rx/100	%	≥0	Word	R
4584H	17796	I2 36th Harmonic	THD=Rx/100	%	≥0	Word	R
4585H	17797	I2 37th Harmonic	THD=Rx/100	%	≥0	Word	R
4586H	17798	I2 38th Harmonic	THD=Rx/100	%	≥0	Word	R
4587H	17799	I2 39th Harmonic	THD=Rx/100	%	≥0	Word	R
4588H	17800	I2 40th Harmonic	THD=Rx/100	%	≥0	Word	R
4589H	17801	I2 41st Harmonic	THD=Rx/100	%	≥0	Word	R
458AH	17802	I2 42nd Harmonic	THD=Rx/100	%	≥0	Word	R
458BH	17803	I2 43rd Harmonic	THD=Rx/100	%	≥0	Word	R
458CH	17804	I2 44th Harmonic	THD=Rx/100	%	≥0	Word	R

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
458DH	17805	I2 45th Harmonic	THD=Rx/100	%	≥0	Word	R
458EH	17806	I2 46th Harmonic	THD=Rx/100	%	≥0	Word	R
458FH	17807	I2 47th Harmonic	THD=Rx/100	%	≥0	Word	R
4590H	17808	I2 48th Harmonic	THD=Rx/100	%	≥0	Word	R
4591H	17809	I2 49th Harmonic	THD=Rx/100	%	≥0	Word	R
4592H	17810	I2 50th Harmonic	THD=Rx/100	%	≥0	Word	R
4593H	17811	I2 51st Harmonic	THD=Rx/100	%	≥0	Word	R
4594H	17812	I2 52nd Harmonic	THD=Rx/100	%	≥0	Word	R
4595H	17813	I2 53rd Harmonic	THD=Rx/100	%	≥0	Word	R
4596H	17814	I2 54th Harmonic	THD=Rx/100	%	≥0	Word	R
4597H	17815	I2 55th Harmonic	THD=Rx/100	%	≥0	Word	R
4598H	17816	I2 56th Harmonic	THD=Rx/100	%	≥0	Word	R
4599H	17817	I2 57th Harmonic	THD=Rx/100	%	≥0	Word	R
459AH	17818	I2 58th Harmonic	THD=Rx/100	%	≥0	Word	R
459BH	17819	I2 59th Harmonic	THD=Rx/100	%	≥0	Word	R
459CH	17820	I2 60th Harmonic	THD=Rx/100	%	≥0	Word	R
459DH	17821	I2 61st Harmonic	THD=Rx/100	%	≥0	Word	R
459EH	17822	I2 62nd Harmonic	THD=Rx/100	%	≥0	Word	R
459FH	17823	I2 63rd Harmonic	THD=Rx/100	%	≥0	Word	R
4107H	16647	Odd THD_I2	THD=Rx/100	%	≥0	Word	R
4108H	16648	Even THD_I2	THD=Rx/100	%	≥0	Word	R
4109H	16649	K Factor of I2	CF=Rx/100	%	≥0	Word	R

I3 Current Harmonics

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
410AH	16650	I3 2nd Harmonic	THD=Rx/100	%	≥0	Word	R
410BH	16551	I3 3rd Harmonic	THD=Rx/100	%	≥0	Word	R
410CH	16652	I3 4th Harmonic	THD=Rx/100	%	≥0	Word	R
410DH	16553	I3 5th Harmonic	THD=Rx/100	%	≥0	Word	R
410EH	16554	I3 6th Harmonic	THD=Rx/100	%	≥0	Word	R
410FH	16555	I3 7th Harmonic	THD=Rx/100	%	≥0	Word	R
4110H	16556	I3 8th Harmonic	THD=Rx/100	%	≥0	Word	R

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4111H	16657	I3 9th Harmonic	THD=Rx/100	%	≥0	Word	R
4112H	16558	I3 10th Harmonic	THD=Rx/100	%	≥0	Word	R
4113H	16559	I3 11th Harmonic	THD=Rx/100	%	≥0	Word	R
4114H	16660	I3 12th Harmonic	THD=Rx/100	%	≥0	Word	R
4115H	16661	I3 13th Harmonic	THD=Rx/100	%	≥0	Word	R
4116H	16662	I3 14th Harmonic	THD=Rx/100	%	≥0	Word	R
4117H	16663	I3 15th Harmonic	THD=Rx/100	%	≥0	Word	R
4118H	16664	I3 16th Harmonic	THD=Rx/100	%	≥0	Word	R
4119H	16665	I3 17th Harmonic	THD=Rx/100	%	≥0	Word	R
411AH%	16666	I3 18th Harmonic	THD=Rx/100	%	≥0	Word	R
411BH	16667	I3 19th Harmonic	THD=Rx/100	%	≥0	Word	R
411CH	16668	I3 20th Harmonic	THD=Rx/100	%	≥0	Word	R
411DH	16669	I3 21st Harmonic	THD=Rx/100	%	≥0	Word	R
411EH	16670	I3 22nd Harmonic	THD=Rx/100	%	≥0	Word	R
411FH	16671	I3 23rd Harmonic	THD=Rx/100	%	≥0	Word	R
4120H	16672	I3 24th Harmonic	THD=Rx/100	%	≥0	Word	R
4121H	16673	I3 25th Harmonic	THD=Rx/100	%	≥0	Word	R
4122H	16674	I3 26th Harmonic	THD=Rx/100	%	≥0	Word	R
4123H	16675	I3 27th Harmonic	THD=Rx/100	%	≥0	Word	R
4124H	16676	I3 28th Harmonic	THD=Rx/100	%	≥0	Word	R
4125H	16677	I3 29th Harmonic	THD=Rx/100	%	≥0	Word	R
4126H	16678	I3 30th Harmonic	THD=Rx/100	%	≥0	Word	R
4127H	16679	I3 31st Harmonic	THD=Rx/100	%	≥0	Word	R
45A0H	17824	I3 32nd Harmonic	THD=Rx/100	%	≥0	Word	R
45A1H	17825	I3 33rd Harmonic	THD=Rx/100	%	≥0	Word	R
45A2H	17826	I3 34th Harmonic	THD=Rx/100	%	≥0	Word	R
45A3H	17827	I3 35th Harmonic	THD=Rx/100	%	≥0	Word	R
45A4H	17828	I3 36th Harmonic	THD=Rx/100	%	≥0	Word	R
45A5H	17829	I3 37th Harmonic	THD=Rx/100	%	≥0	Word	R
45A6H	17830	I3 38th Harmonic	THD=Rx/100	%	≥0	Word	R
45A7H	17831	I3 39th Harmonic	THD=Rx/100	%	≥0	Word	R
45A8H	17832	I3 40th Harmonic	THD=Rx/100	%	≥0	Word	R
45A9H	17833	I3 41st Harmonic	THD=Rx/100	%	≥0	Word	R

Current Harmonics, Even & Odd Harmonics, K Factor: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
45AAH	17834	I3 42nd Harmonic	THD=Rx/100	%	≥0	Word	R
45ABH	17835	I3 43rd Harmonic	THD=Rx/100	%	≥0	Word	R
45ACH	17836	I3 44th Harmonic	THD=Rx/100	%	≥0	Word	R
45ADH	17837	I3 45th Harmonic	THD=Rx/100	%	≥0	Word	R
45AEH	17838	I3 46th Harmonic	THD=Rx/100	%	≥0	Word	R
45AFH	17839	I3 47th Harmonic	THD=Rx/100	%	≥0	Word	R
45B0H	17840	I3 48th Harmonic	THD=Rx/100	%	≥0	Word	R
45B1H	17841	I3 49th Harmonic	THD=Rx/100	%	≥0	Word	R
45B2H	17842	I3 50th Harmonic	THD=Rx/100	%	≥0	Word	R
45B3H	17843	I3 51st Harmonic	THD=Rx/100	%	≥0	Word	R
45B4H	17844	I3 52nd Harmonic	THD=Rx/100	%	≥0	Word	R
45B5H	17845	I3 53rd Harmonic	THD=Rx/100	%	≥0	Word	R
45B6H	17846	I3 54th Harmonic	THD=Rx/100	%	≥0	Word	R
45B7H	17847	I3 55th Harmonic	THD=Rx/100	%	≥0	Word	R
45B8H	17848	I3 56th Harmonic	THD=Rx/100	%	≥0	Word	R
45B9H	17849	I3 57th Harmonic	THD=Rx/100	%	≥0	Word	R
45BAH	17850	I3 58th Harmonic	THD=Rx/100	%	≥0	Word	R
45BBH	17851	I3 59th Harmonic	THD=Rx/100	%	≥0	Word	R
45BCH	17852	I3 60th Harmonic	THD=Rx/100	%	≥0	Word	R
45BDH	17853	I3 61st Harmonic	THD=Rx/100	%	≥0	Word	R
45BEH	17854	I3 62nd Harmonic	THD=Rx/100	%	≥0	Word	R
45BFH	17855	I3 63rd Harmonic	THD=Rx/100	%	≥0	Word	R
4128H	16680	Odd THD_I3	THD=Rx/100	%	≥0	Word	R
4129H	16681	Even THD_I3	THD=Rx/100	%	≥0	Word	R
412AH	16682	K Factor of I3	CF=Rx/100	%	≥0	Word	R

MAX & MIN Values

MAX: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4136H	16694	Max of V1	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
4137H-413CH	16695-16700	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
413DH	16701	Max of V2	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
413EH-4143H	16702-16707	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4144H	16708	Max of V3	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
4145H-414AH	16709-16714	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
414BH	16715	Max of V12	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
414CH-4151H	16716-16721	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4152H	16722	Max of V23	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
4153H-4158H	16723-16728	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4159H	16729	Max of V31	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
415AH-415FH	16730-16735	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4160H	16736	Max of I1	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
4161H-4166H	16737-16742	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4167H	16743	Max of I2	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
4168H-416DH	16744-16749	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
416EH	16750	Max of I3	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
416FH-4174H	16751-16756	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4175H	16757	Max of System Power	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kW	-32768~32767	int	R
4176H-417BH	16758-16763	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
417CH	16764	Max of Reactive Power	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kvar	-32768~32767	int	R
417DH-4182H	16765-16770	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4183H	16771	Max of Apparent Power	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kVA	-32768~32767	int	R
4184H-4189H	16772-16777	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
418AH	16778	Max of Power Factor	Rx/1000		-32768~32767	int	R
418BH-4190H	16779-16784	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4191H	16785	Max of Frequency	Rx/1000	Hz	-32768~32767	int	R
4192H-4197H	16786-16791	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4198H	16792	Max of Power Demand	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kW	-32768~32767	int	R

MAX: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
4199H-419EH	16793-16798	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
419FH	16799	Max of Reactive Power Demand	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kvar	-32768~32767	int	R
41A0H-41A5H	16800-16805	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41A6H	16806	Max of Apparent Power Demand	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kVA	-32768~32767	int	R
41A7H-41ACH	16807-16812	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4606H	17926	Max of Phase A Current Demand	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
4607H-460CH	17927-17932	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
460DH	17933	Max of Phase B Current Demand	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
460EH~4613H	17934-17939	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4614H	17940	Max of Phase C Current Demand	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
4615H-461AH	17941-17946	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41ADH	16813	Max of Voltage Unbalance	Rx/10	%	-32768~32767	int	R
41AEH-41B3H	16814-16819	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41B4H	16820	Max of Current Unbalance	Rx/10	%	-32768~32767	int	R
41B5H-41BAH	16821-16826	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41BBH	16827	Max of THD_V1(V12)		%	-32768~32767	int	R
41BCH-41C1H	16828-16833	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41C2H	16834	Max of THD_V2(V31)	Rx/100	%	-32768~32767	int	R
41C3H-41C8H	16835-16840	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41C9H	16841	Max of THD_V3(V23)	Rx/100	%	-32768~32767	int	R
41CAH-41CFH	16842-16847	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41D0H	16848	Max of THD_I1	Rx/100	%	-32768~32767	int	R
41D1H-41D6H	16849-16854	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41D7H	16855	Max of THD_I2	Rx/100	%	-32768~32767	int	R
41D8H-41DDH	16856-16861	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41DEH	16862	Max of THD_I3	Rx/100	%	-32768~32767	int	R
41DFH-41E4H	16863-16868	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R

MIN: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
41E5H	16869	Min of V1	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
41E6H-41EBH	16870-16875	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41ECH	16876	Min of V2	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
41EDH-41F2H	16877-16882	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41F3H	16883	Min of V3	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
41F4H-41F9H	16884-16889	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
41FAH	16890	Min of V12	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
41FBH-4200H	16891-16896	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4201H	16897	Min of V23	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
4202H-4207H	16898-16903	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4208H	16904	Min of V31	(Rx*(PT1/PT2))/10	V	-32768~32767	int	R
4209H-420EH	16905-16910	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
420FH	16911	Min of I1	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
4210H-4215H	16912-16917	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4216H	16918	Min of I2	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
4217H-421CH	16919-16924	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
421DH	16925	Min of I3	(Rx*(CT1/CT2))/1000	A	-32768~32767	int	R
421EH-4223H	16926-16931	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4224H	16932	Min of System Power	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kW	-32768~32767	int	R
4225H-422AH	16933-16938	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
422BH	16939	Min of Reactive Power	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kvar	-32768~32767	int	R
422CH-4231H	16940-16945	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4232H	16946	Max of Apparent Power	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kVA	-32768~32767	int	R
4233H-4238H	16947-16952	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4239H	16953	Min of Power Factor	Rx/1000		-32768~32767	int	R
423AH-423FH	16954-16959	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4240H	16960	Max of Frequency	Rx/1000	Hz	-32768~32767	int	R
4241H-4246H	16961-16966	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4247H	16967	Min of Power Demand	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kW	-32768~32767	int	R
4248H-424DH	16968-16973	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
424EH	16974	Max of Reactive Power Demand	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kvar	-32768~32767	int	R

MIN: 03H Read							
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Property**	**Range**	**Data Type**	**Access Property**
424FH-4254H	16975-16980	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4255H	16981	Max of Apparent Power Demand	(Rx*(CT1/CT2)*(PT1/PT2))/1000	kVA	-32768~32767	int	R
4256H-425BH	16982-16987	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
425CH	16988	Min of Voltage Unbalance	Rx/10	%	-32768~32767	int	R
425DH-4262H	16989-16994	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4263H	16995	Min of Curret Unbalance	Rx/10	%	-32768~32767	int	R
4264H-4269H	16996-17001	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
426AH	17002	Min of THD_V1 (V12)	Rx/100	%	-32768~32767	int	R
426BH-4270H	17003-17008	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4271H	17009	Min of THD_V2 (V31)	Rx/100	%	-32768~32767	int	R
4272H-4277H	17010-17015	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4278H	17016	Min of THD_V3(V23)	Rx/100	%	-32768~32767	int	R
4279H-427EH	17017-17022	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
427FH	17023	Min of THD_I1	Rx/100	%	-32768~32767	int	R
4280H-4285H	17024-17029	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
4286H	17030	Min of THD_I2	Rx/100	%	-32768~32767	int	R
4287H-428CH	17031-17036	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R
428DH	17037	Min of THD_I3	Rx/100	%	-32768~32767	int	R
428EH-4293H	17038-17043	Time Stamp	YYYY:MM:DD:hh:mm:ss			int	R

Phase Angles

Phase Angles: 03H Read						
Address(H)	**Address(D)**	**Parameter**	**Relationship**	**Range**	**Data Type**	**Access Property**
42A0H	17056	Phase Angle of V2 to V1	V2=Rx/10	0~3600	Word	R
42A1H	17057	Phase Angle of V3 to V1	V3=Rx/10	0~3600	Word	R
42A2H	17058	Phase Angle of I1 to V1	I1=Rx/10	0~3600	Word	R
42A3H	17059	Phase Angle of I2 to V1	I2=Rx/10	0~3600	Word	R
42A4H	17060	Phase Angle of I3 to V1	I3=Rx/10	0~3600	Word	R

Reading I/O Modules
Digital Input (DI)
DI Counter

DI Counter: 03H Read						
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Access Property**
AXM-IO11						
4349H-434AH	17225-17226	DI_111	DI1 Pulse Counter Number	0~4294967295	Dword	R
434BH-434CH	17227-17228	DI_112	DI2 Pulse Counter Number	0~4294967295	Dword	R
434DH-434EH	17229-17230	DI_113	DI3 Pulse Counter Number	0~4294967295	Dword	R
434FH-4350H	17231-17232	DI_114	DI4 Pulse Counter number	0~4294967295	Dword	R
4351H-4352H	17233-17234	DI_115	DI5 Pulse Counter Number	0~4294967295	Dword	R
4353H-4354H	17235-17236	DI_116	DI6 Pulse Counter Number	0~4294967295	Dword	R
AXM-IO21						
4355H-4356H	17237-17238	DI_211	DI7 Pulse Counter Number	0~4294967295	Dword	R
4357H-4358H	17239-17240	DI_212	DI8 Pulse Counter Number	0~4294967295	Dword	R
4359H-435AH	17241-17242	DI_213	DI9 Pulse Counter Number	0~4294967295	Dword	R
435BH-435CH	17243-17244	DI_214	DI10 Pulse Counter Number	0~4294967295	Dword	R
AXM-IO31						
435DH-435EH	17245-17246	DI_311	DI11 Pulse Counter Number	0~4294967295	Dword	R
435FH-4360H	17247-17248	DI_312	DI12 Pulse Counter Number	0~4294967295	Dword	R
4361H-4362H	17249-17250	DI_313	DI13 Pulse Counter Number	0~4294967295	Dword	R
4363H-4364H	17251-17252	DI_314	DI14 Pulse Counter Number	0~4294967295	Dword	R
AXM-IO12						
4365H-4366H	17253-17254	DI_121	DI15 Pulse Counter Number	0~4294967295	Dword	R
4367H-4368H	17255-17256	DI_122	DI16 Pulse Counter Number	0~4294967295	Dword	R
4369H-436AH	17257-17258	DI_123	DI17 Pulse Counter Number	0~4294967295	Dword	R
436BH-436CH	17259-17260	DI_124	DI18 Pulse Counter Number	0~4294967295	Dword	R
436DH-436EH	17261-17262	DI_125	DI19 Pulse Counter Number	0~4294967295	Dword	R
436FH-4370H	17263-17264	DI_126	DI20 Pulse Counter Number	0~4294967295	Dword	R
AXM-IO22						
4371H-4372H	17265-17266	DI_221	DI21 Pulse Counter Number	0~4294967295	Dword	R
4373H-4374H	17267-17268	DI_222	DI22 Pulse Counter Number	0~4294967295	Dword	R
4375H-4376H	17269-17270	DI_223	DI23 Pulse Counter Number	0~4294967295	Dword	R
4377H-4378H	17271-17272	DI_224	DI24 Pulse Counter Number	0~4294967295	Dword	R
AXM-IO32						
4379H-437AH	17273-17274	DI_321	DI25 Pulse Counter Number	0~4294967295	Dword	R

DI Counter: 03H Read						
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Access Property**
437BH-437CH	17275-17276	DI_322	DI26 Pulse Counter Number	0~4294967295	Dword	R
437DH-437EH	17277-17278	DI_323	DI27 Pulse Counter Number	0~4294967295	Dword	R
437FH-4380H	17279-17280	DI_324	DI28 Pulse Counter Number	0~4294967295	Dword	R

DI Status

DI Status: 02H Read						
Address(H)	**Addreess(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Access Property**
0000H	0	DI_111	DI1 Status	0: OFF / 1: ON	Bit	R
0001H	1	DI_112	DI2 Status	0: OFF / 1: ON	Bit	R
0002H	2	DI_113	DI3 Status	0: OFF / 1: ON	Bit	R
0003H	3	DI_114	DI4 Status	0: OFF / 1: ON	Bit	R
0004H	4	DI_115	DI5 Status	0: OFF / 1: ON	Bit	R
0005H	5	DI_116	DI6 Status	0: OFF / 1: ON	Bit	R
AXM-IO21						
0006H	6	DI_211	DI7 Status	0: OFF / 1: ON	Bit	R
0007H	7	DI_212	DI8 Status	0: OFF / 1: ON	Bit	R
0008H	8	DI_213	DI9 Status	0: OFF / 1: ON	Bit	R
0009H	9	DI_214	DI10 Status	0: OFF / 1: ON	Bit	R
AXM-IO31						
000AH	10	DI_311	DI11 Status	0: OFF / 1: ON	Bit	R
000BH	11	DI_312	DI12 Status	0: OFF / 1: ON	Bit	R
000CH	12	DI_313	DI13 Status	0: OFF / 1: ON	Bit	R
000DH	13	DI_314	DI14 Status	0: OFF / 1: ON	Bit	R
AXM-IO12						
000EH	14	DI_121	DI15 Status	0: OFF / 1: ON	Bit	R
000FH	15	DI_122	DI16 Status	0: OFF / 1: ON	Bit	R
0010H	16	DI_123	DI17 Status	0: OFF / 1: ON	Bit	R
0011H	17	DI_124	DI18 Status	0: OFF / 1: ON	Bit	R
0012H	18	DI_125	DI19 Status	0: OFF / 1: ON	Bit	R
0013H	19	DI_126	DI20 Status	0: OFF / 1: ON	Bit	R
AXM-IO22						
0014H	20	DI_221	DI21 Status	0: OFF / 1: ON	Bit	R
0015H	21	DI_222	DI22 Status	0: OFF / 1: ON	Bit	R

DI Status: 02H Read						
Address(H)	**Addreess(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Access Property**
0016H	22	DI_223	DI23 Status	0: OFF / 1: ON	Bit	R
0017H	23	DI_224	DI24 Status	0: OFF / 1: ON	Bit	R
AXM-IO32						
0018H	24	DI_321	DI25 Status	0: OFF / 1: ON	Bit	R
0019H	25	DI_322	DI26 Status	0: OFF / 1: ON	Bit	R
001AH	26	DI_323	DI27 Status	0: OFF / 1: ON	Bit	R
001BH	27	DI_324	DI28 Status	0: OFF / 1: ON	Bit	R

Analog Input

AI Input Value: 03H Read						
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Access Property**
4385H	17285	AI_311	AI1 Sampling value	0~4095	Dword	R
4386H	17286	AI_312	AI2 Sampling value	0~4095	Dword	R
4387H	17287	AI_321	AI3 Sampling value	0~4095	Dword	R
4388H	17288	AI_322	AI4 Sampling value	0~4095	Dword	R

Analog Output

AO Output Value: 03H Read						
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Float**
4389H-438AH	17289-17290	AO_211	Value of AO1		Float	R
438BH-438CH	17291-17292	AO_212	Value of AO2		Float	R
438DH-438EH	17293-17294	AO_221	Value of A03		Float	R
438FH-4390H	17295-17296	AO_222	Value of AO4		Float	R

Relay Output

RO Status: 01H Read, 05H Control						
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Access Property**
AXM-IO11						
0000H	0	RO_111	RO1	0: OFF / 1: ON	Bit	R
0001H	1	RO_112	RO2	0: OFF / 1: ON	Bit	R
AXM-IO311						
0002H	2	RO_311	RO3	0: OFF / 1: ON	Bit	R
0003H	3	RO_312	RO4	0: OFF / 1: ON	Bit	R
AXM-IO12						

RO Status: 01H Read, 05H Control						
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Data Type**	**Access Property**
0004H	4	RO_121	RO5	0: OFF / 1: ON	Bit	R
0005H	5	RO_122	RO6	0: OFF / 1: ON	Bit	R
AXM-IO32						
0006H	6	RO_321	RO7	0: OFF / 1: ON	Bit	R
0007H	7	RO_322	RO8	0: OFF / 1: ON	Bit	R

TOU (Time of Use) Registers

Current month accumulation TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
Sharp							
7200H-7201H	29184-29185	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7202H-7203H	29186-29187	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7204H-7205H	29188-29189	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7206H-7207H	29190-29191	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7208H-7209H	29192-29193	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Peak							
720AH-720BH	29194-29195	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
720CH-720DH	29196-29197	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
720EH-720FH	29198-29199	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7210H-7211H	29200-29201	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7212H-7213H	29202-29203	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Valley							
7214H-7215H	29204-29205	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7216H-7217H	29206-29207	Ep_Exp	Generated Energy	0-999999999	KWh	Dword	R/W
7218H-7219H	29208-29209	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
721AH-721BH	29210-29211	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
721CH-721DH	29212-29213	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Normal							
721EH-721FH	29214-29215	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7220H-7221H	29216-29217	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7222H-7223H	29218-29219	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7224H-7225H	29220-29221	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7226H-7227H	29222-29223	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W

Current month accumulation TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
Total							
7228H-7229H	29224-29225	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
722AH-722BH	29226-29227	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
722CH-722DH	29228-29229	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
722EH-722FH	29230-29231	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7230H-7231H	29232-29233	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W

Prior Month Accumulation TOU Energy

Prior Month Accumulation TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
Sharp							
7232H-7233H	29234-29235	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7234H-7235H	29236-29237	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7236H-7237H	29238-29239	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7238H-7239H	29240-29241	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
723AH-723BH	29242-29243	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Peak							
723CH-723DH	29244-29245	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
723EH-723FH	29246-29247	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7240H-7241H	29248-29249	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7242H-7243H	29250-29251	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7244H-7245H	29252-29253	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Valley							
7246H-7247H	29254-29255	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7248H-7249H	29256-29257	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
724AH-724BH	29258-29259	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
724CH-724DH	29260-29261	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
724EH-724FH	29262-29263	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Normal							
7250H-7251H	29264-29265	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7252H-7253H	29266-29267	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7254H-7255H	29268-29269	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7256H-7257H	29270-29271	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W

Prior Month Accumulation TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
7258H-7259H	29272-29273	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Total							
725AH-725BH	29274-29275	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
725CH-725DH	29276-29277	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
725EH-725FH	29278-29279	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7260H-7261H	29280-29281	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7262H-7263H	29282-29283	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W

Current Month Incremental TOU Energy

Current Month Incremental TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
Sharp							
7300H-7301H	29440-29441	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7302H-7303H	29442-29443	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7304H-7305H	29444-29445	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7306H-7307H	29446-29447	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7308H-7309H	29448-29449	Es	Apparent	0-999999999	kVAh	Dword	R/W
Peak							
730AH-730BH	29450-29451	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
730CH-730DH	29452-29453	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
730EH-730FH	29454-29455	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7310H-7311H	29456-29457	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7312H-7313H	29458-29459	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Valley							
7314H-7315H	29460-29461	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7316H-7317H	29462-29463	Ep_Exp	Exported Energy	0-999999999	kWh	Dword	R/W
7318H-7319H	29464-29465	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
731AH-731BH	29466-29467	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
731CH-731DH	29468-29469	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Normal							
731EH-731FH	29470-29741	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7320H-7321H	29472-29473	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7322H-7323H	29474-29475	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W

Current Month Incremental TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
7324H-7325H	29476-29477	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7326H-7327H	29478-29479	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Total							
7328H-7329H	29480-29481	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
732AH-732BH	29482-29483	Ep_Exp	Exported Energy	0-999999999	kWh	Dword	R/W
732CH-732DH	29484-29485	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
732EH-732FH	29486-29487	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7330H-7331H	29488-29489	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W

Prior Month Incremental TOU Energy

Prior Month Incremental TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
Sharp							
7332H-7333H	29490-29491	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7334H-7335H	29492-29493	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7336H-7337H	29494-29495	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7338H-7339H	29496-29497	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
733AH-733BH	29498-29499	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Peak							
733CH-733DH	29500-29501	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
733EH-733FH	29502-29503	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
7340H-7341H	29504-29505	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7342H-7343H	29506-29507	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7344H-7345H	29508-29509	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Valley							
7346H-7347H	29510-29511	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7348H-7349H	29512-29513	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
734AH-734BH	29514-29515	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
734CH-734DH	29516-29517	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
734EH-734FH	29518-29519	Es	Apparent Energy	0-999999999	kVA	Dword	R/W
Normal							
7350H-7351H	29520-29521	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
7352H-7353H	29522-29523	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W

Prior Month Incremental TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
7354H-7355H	29524-29525	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7356H-7357H	29526-29527	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7358H-7359H	29528-29529	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Total							
735AH-735BH	29530-29531	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
735CH-735DH	29532-29533	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
735EH-735FH	29534-29535	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
7360H-7361H	29536-29537	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
7363H-7363H	29538-29539	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W

Current Month Maximum Demand TOU Energy

Current Month Maximum Demand TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Realationship**	**Range**	**Data Type**	**Access Property**
Sharp							
7500H	29952	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7501H-7503H	29956		TIme Stamp	YY/MM; DD/HH; Min/Sec			
7504H	29956	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7505H-7507H	29957-29959		Time Stamp	YY/MM; DD/HH; Min/Sec			
7508H	29960	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7509H-750BH	29961-29963		Time Stamp	YY/MM; DD/HH; Min/Sec			
750CH	29964	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
750DH-750FH	29965-29967		Time Stamp	YY/MM; DD/HH; Min/Sec			
7510H	29968	Es	Max Demand	Rx/10	-32768~32767	Int	R
7511H-7513H	29969-29971		Time Stamp	YY/MM; DD/HH; Min/Sec			
7514H	29972	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7515H-7517H	29973-29975		Time Stamp	YY/MM; DD/HH; Min/Sec			
7518H	29976	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7519H-751BH	29977-29979		Time Stamp	YY/MM; DD/HH; Min/Sec			
751CH	29980	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
751DH-751FH	29981-29983		Time Stamp	YY/MM; DD/HH; Min/Sec			
Peak							
7520H	29984	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7521H-7523H	29985-29987		Time Stamp	YY/MM; DD/HH; Min/Sec			

Current Month Maximum Demand TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Realationship**	**Range**	**Data Type**	**Access Property**
7524H	29988	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7525H-7527H	29989-29991		Time Stamp	YY/MM; DD/HH; Min/Sec			
7528H	29992	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7529H-752BH	29993-29995		Time Stamp	YY/MM; DD/HH; Min/Sec			
752CH	29996	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
752DH-752FH	29997-29999		Time Stamp	YY/MM; DD/HH; Min/Sec			
7530H	30000	Es	Max Demand	Rx/10	-32768~32767	Int	R
7531H-7533H	30001-30003		Time Stamp	YY/MM; DD/HH; Min/Sec			
7534H	30004	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7535H-7537H	30005-30007		Time Stamp	YY/MM; DD/HH; Min/Sec			
7538H	30008	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7539H-753BH	30009-30011		Time Stamp	YY/MM; DD/HH; Min/Sec			
753CH	30012	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
753DH-753FH	30013-30015		Time Stamp	YY/MM; DD/HH; Min/Sec			
Valley							
7540H	30016	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7541H-7543H	30017-30019		Time Stamp	YY/MM; DD/HH; Min/Sec			
7544H	30020	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7545H-7547H	30021-30023		Time Stamp	YY/MM; DD/HH; Min/Sec			
7548H	30024	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7549H-754BH	30025-30026		Time Stamp	YY/MM; DD/HH; Min/Sec			
754CH	30027	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
754DH-754FH	30028-30031		Time Stamp	YY/MM; DD/HH; Min/Sec			
7550H	30032	Es	Max Demand	Rx/10	-32768~32767	Int	R
7551H-7553H	30033-30035		Time Stamp	YY/MM; DD/HH; Min/Sec			
7554H	30036	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7555H-7557H	30037-30039		Time Stamp	YY/MM; DD/HH; Min/Sec			
7558H	30040	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7559H-755BH	30041-30043		Time Stamp	YY/MM; DD/HH; Min/Sec			
755CH	30044	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
755DH-755FH	30045-30047		Time Stamp	YY/MM; DD/HH; Min/Sec			
Normal							
7560H	30048	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R

Current Month Maximum Demand TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Realationship**	**Range**	**Data Type**	**Access Property**
7561H-7563H	30049-30051		Time Stamp	YY/MM; DD/HH; Min/Sec			
7564H	30052	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7565H-7567H	30053-30055		Time Stamp	YY/MM; DD/HH; Min/Sec			
7568H	30056	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7569H-756BH	30057-30059		Time Stamp	YY/MM; DD/HH; Min/Sec			
756CH	30060	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
756DH-756FH	30061-30063		Time Stamp	YY/MM; DD/HH; Min/Sec			
7570H	30064	Es	Max Demand	Rx/10	-32768~32767	Int	R
7571H-7573H	30065-30067		Time Stamp	YY/MM; DD/HH; Min/Sec			
7574H	30068	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7575H-7577H	30069-30071		Time Stamp	YY/MM; DD/HH; Min/Sec			
7578H	30072	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7579H-757BH	30073-30075		Time Stamp	YY/MM; DD/HH; Min/Sec			
757CH	30076	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
757DH-757FH	30077-30079		Time Stamp	YY/MM; DD/HH; Min/Sec			
Total							
7580H	30080	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7581H-7583H	30081-30083		Time Stamp	YY/MM; DD/HH; Min/Sec			
7584H	30084	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7585H-7587H	30085-30087		Time Stamp	YY/MM; DD/HH; Min/Sec			
7588H	30088	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7589H-758BH	30089-30091		Time Stamp	YY/MM; DD/HH; Min/Sec			
758CH	30092	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
758DH-758FH	30093-30095		Time Stamp	YY/MM; DD/HH; Min/Sec			
7590H	30096	Es	Max Demand	Rx/10	-32768~32767	Int	R
7591H-7593H	30097-30099		Time Stamp	YY/MM; DD/HH; Min/Sec			
7594H	30100	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7595H-7597H	30101-30103		Time Stamp	YY/MM; DD/HH; Min/Sec			
7598H	30104	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7599H-759BH	30105-30107		Time Stamp	YY/MM; DD/HH; Min/Sec			
759CH	30108	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
759DH-759FH	30109-30111		Time Stamp	YY/MM; DD/HH; Min/Sec			

Previous Month Maximum Demand TOU Energy

Previous Month Maximum Demand TOU Energy: 03H							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Relationship**	**Range**	**Data Type**	**Access Property**
Sharp							
7600H	30208	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7601H-7603H	30209-30211		Time Stamp	YY/MM; DD/HH; Min/Sec			
7604H	30212	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7605H-7607H	30213-30215		Time Stamp	YY/MM; DD/HH; Min/Sec			
7608H	30216	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7609H-760BH	30217-30219		Time Stamp	YY/MM; DD/HH; Min/Sec			
760CH	30220	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
760DH-760FH	30221-30223		Time Stamp	YY/MM; DD/HH; Min/Sec			
7610H	30224	Es	Max Demand	Rx/10	-32768~32767	Int	R
7611H-7613H	30225-30227		Time Stamp	YY/MM; DD/HH; Min/Sec			
7614H	30228	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7615H-7617H	30229-30231		Time Stamp	YY/MM; DD/HH; Min/Sec			
7618H	30232	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7619H-761BH	30233-30235		Time Stamp	YY/MM; DD/HH; Min/Sec			
761CH	30236	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
761DH-761FH	30237-30239		Time Stamp	YY/MM; DD/HH; Min/Sec			
Peak							
7620H	30240	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7621H-7623H	30241-30243		Time Stamp	YY/MM; DD/HH; Min/Sec			
7624H	30244	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7625H-7627H	30245-30247		Time Stamp	YY/MM; DD/HH; Min/Sec			
7628H	30248	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7629H-762BH	30249-30251		Time Stamp	YY/MM; DD/HH; Min/Sec			
762CH	30252	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
762DH-762FH	30253-30255		Time Stamp	YY/MM; DD/HH; Min/Sec			
7630H	30256	Es	Max Demand	Rx/10	-32768~32767	Int	R
7631H-7633H	30257-30259		Time Stamp	YY/MM; DD/HH; Min/Sec			
7634H	30260	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7635H-7637H	30261-30263		Time Stamp	YY/MM; DD/HH; Min/Sec			
7638H	30264	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7639H-763BH	30265-30267		Time Stamp	YY/MM; DD/HH; Min/Sec			

Previous Month Maximum Demand TOU Energy: 03H							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Relationship**	**Range**	**Data Type**	**Access Property**
763CH	30268	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
763DH-763FH	30269-30271		Time Stamp	YY/MM; DD/HH; Min/Sec			
Valley							
7640H	30272	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7641H-7643H	30273-30275		Time Stamp	YY/MM; DD/HH; Min/Sec			
7644H	30276	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7645H-7647H	30277-30279		Time Stamp	YY/MM; DD/HH; Min/Sec			
7648H	30280	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7649H-764BH	30281-30283		Time Stamp	YY/MM; DD/HH; Min/Sec			
764CH	30284	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
764DH-764FH	30285-30287		Time Stamp	YY/MM; DD/HH; Min/Sec			
7650H	30288	Es	Max Demand	Rx/10	-32768~32767	Int	R
7651H-7653H	30289-30291		Time Stamp	YY/MM; DD/HH; Min/Sec			
7654H	30292	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7655H-7657H	30293-30295		Time Stamp	YY/MM; DD/HH; Min/Sec			
7658H	30296	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7659H-765BH	30297-30299		Time Stamp	YY/MM; DD/HH; Min/Sec			
765CH	30300	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
765DH-765FH	30301-30303		Time Stamp	YY/MM; DD/HH; Min/Sec			
Normal							
7660H	30304	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7661H-7663H	30305-30307		Time Stamp	YY/MM; DD/HH; Min/Sec			
7664H	30308	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7665H-7667H	30309-30311		Time Stamp	YY/MM; DD/HH; Min/Sec			
7668H	30312	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7669H-766BH	30313-30315		Time Stamp	YY/MM; DD/HH; Min/Sec			
766CH	30316	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
766DH-766FH	30317-30319		Time Stamp	YY/MM; DD/HH; Min/Sec			
7670H	30320	Es	Max Demand	Rx/10	-32768~32767	Int	R
7671H-7673H	30321-30323		Time Stamp	YY/MM; DD/HH; Min/Sec			
7674H	30324	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7675H-7677H	30325-30327		Time Stamp	YY/MM; DD/HH; Min/Sec			
7678H	30328	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R

Previous Month Maximum Demand TOU Energy: 03H							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Relationship**	**Range**	**Data Type**	**Access Property**
7679H-767BH	30329-30331		Time Stamp	YY/MM; DD/HH; Min/Sec			
767CH	30332	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
767DH-767FH	30333-30334		Time Stamp	YY/MM; DD/HH; Min/Sec			
Total							
7680H	30336	Ep_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7681H-7683H	30337-30339		Time Stamp	YY/MM; DD/HH; Min/Sec			
7684H	30340	Ep_Exp	Max Demand	Rx/10	-32768~32767	Int	R
7685H-7687H	30341-30343		Time Stamp	YY/MM; DD/HH; Min/Sec			
7688H	30344	Eq_Imp	Max Demand	Rx/10	-32768~32767	Int	R
7689H-768BH	30345-30347		Time Stamp	YY/MM; DD/HH; Min/Sec			
768CH	30348	Eq_Exp	Max Demand	Rx/10	-32768~32767	Int	R
768DH-768FH	30349-30351		Time Stamp	YY/MM; DD/HH; Min/Sec			
7690H	30352	Es	Max Demand	Rx/10	-32768~32767	Int	R
7691H-7693H	30353-30355		Time Stamp	YY/MM; DD/HH; Min/Sec			
7694H	30356	Ia	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7695H-7697H	30357-30359		Time Stamp	YY/MM; DD/HH; Min/Sec			
7698H	30360	Ib	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
7699H-769BH	30361-30363		Time Stamp	YY/MM; DD/HH; Min/Sec			
769CH	30364	Ic	Max Demand	Rx*(CT1/CT2)/1000	-32768~32767	Int	R
769DH-769FH	30365-30366		Time Stamp	YY/MM; DD/HH; Min/Sec			

SunSpec Registers

SunSpec							
Address(H)	**Address(D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**	**Number of Registers**
C350H-C351H	50000-50001	SunSpec_ID	0x53756e53		Uint16	R	2
C352H	50002	ID	1		Uint16	R	1
C353H	50003	Length	65		String	R	1
C354H-C363H	50004-50019	Manufacturer		Accuenergy	String	R	16
C364H-C373H	50020-50035	Model	Manufacturer Specific Value (32 characters)	Acuvim II	String	R	16
C374H-C37BH	50036-50043	Options	Manufacturer Specific Value (16 characters)	Acuvim II/IIR/IIE/IIW	String	R	8

SunSpec							
Address(H)	**Address(D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**	**Number of Registers**
C37CH-C383H	50044-50051	Version	Manufacturer Specific Value (16 characters)	H: 2.31 S: 3.60	String	R	8
C384H-C393H	50052-50067	Serial Number	Manufacturer Specific Value (32 characters)		String	R	16
C394H	50068	Device Address	Modbus Device Address		Uint16	R	1
C395H	50069	ID	Meter Configuration: Single Phase (AN or AB):201 Split Single Phase (ABN): 202 WYE-Three Phase (ABCN): 203 Delta Three Phase (ABC): 204		Uint16	R	1
C396H	50070	Length	81		Uint16	R	1
C397H	50071	Current: Amps(Average)	0~32767 A		Int16	R	1
C398H	50072	Current: Phase A	0~32767 A		Int16	R	1
C399H	50073	Current: Phase B	0~32767 A		Int16	R	1
C39AH	50074	Current: Phase C	0~32767 A		Int16	R	1
C39BH	50075	Current SunSpec Scale Factor	0~32767 A		sunssf	R	1
C39CH	50076	Voltage: Average Phase	-3~2 (used an exponent of a power of 10)		int16	R	1
C39DH	50077	Voltage: Phase A	0~9999 V		int16	R	1
C39EH	50078	Voltage: Phase B	0~9999 V		int16	R	1
C39FH	50079	Voltage: Phase C	0~9999 V		int16	R	1
C3A0H	50080	Voltage: Line-Line Average	0~9999 V		int16	R	1
C3A1H	50081	Voltage: Line AB	0~9999 V		int16	R	1
C3A2H	50082	Voltage: Line BC	0~9999V		int16	R	1
C3A3H	50083	Voltage: Line CA	0~9999 V		int16	R	1
C3A4H	50084	Voltage Scale Factor	-2~4(used as an exponent of a power of 10)		sunssf	R	1
C3A5H	50085	Frequency	45-65Hz		int16	R	1
C3A6H	50086	Frequency Scale Factor	-2(used as an exponent of a power of10)		sunssf	R	1
C3A7H	50087	Total Real Power	-32768~32767 W		int16	R	1
C3A8H	50088	Real Power: Phase A Watts	-32768~32767 W		int16	R	1
C3A9H	50089	Real Power: Phase B Watts	-32768~32767 W		int16	R	1

SunSpec							
Address(H)	**Address(D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**	**Number of Registers**
C3AAH	50090	Real Power: Phase C Watts	-32768~32767		int16	R	1
C3ABH	50091	Real Power Scale Factor	-1~8(used as an exponent of a power of 10)		sunssf	R	1
C3ACH	50092	Total Apparent Power	0~32367 VA		int16	R	1
C3ADH	50093	Apparent Power: Phase A VA	0~32367 VA		int16	R	1
C3AEH	50094	Apparent Power: Phase B VA	0~32367 VA		int16	R	1
C3AFH	50095	Apparent Power: Phase C VA	0~32767 VA		int16	R	1
C3B0H	50096	Apparent Power Scale Factor	-1~8(used as an exponent of a power of 10)		sunssf	R	1
C3B1H	50097	Total Reactive Power	-32768~32767 var		int16	R	1
C3B2H	50098	Reactive Power: Phase A var	-32768~32767 var		int16	R	1
C3B3H	50099	Reactive Power: Phase B var	-3278~32767 var		int16	R	1
C3B4H	50100	Reactive Power: Phase C var	-32768~32767 var		int16	R	1
C3B5H	50101	Reactive Power Scale Factor	-1~8(used as an exponent of a power of 10)		sunssf	R	1
C3B6H	50102	Power Factor	-1000~1000		int16	R	1
C3B7H	50103	Power Factor: Phase A PF	-1000~1000		int16	R	1
C3B8H	50104	Power Factor: Phase B PF	-1000~1000		int16	R	1
C3B9H	50105	Power Factor: Phase C PF	-1000~1000		int16	R	1
C3BAH	50106	Power Factor Scale Factor	-3(used as an exponent of a power of 10)		sunssf	R	1
C3BBH-C3BCH	50107-50108	Total Real Energy: Export	0~999999999 Wh		int32	R/W	2
C3BDH-C3BEH	50109-50110	Export Real Energy: Phase A	0~999999999 Wh		int32	R/W	2
C3BFH-C3C0H	50111-50112	Export Real Energy: Phase B	0~999999999 Wh		int32	R/W	2
C3C1H-C3C2H	50113-50114	Export Real Energy: Phase C	0~999999999 Wh		int32	R/W	2
C3C3H-C3C4H	50115-50116	Total Real Energy: Import	0~999999999 Wh		int32	R/W	2
C3C5H-C3C6H	50117-50118	Import Real Energy: Phase A	0~999999999 Wh		int32	R/W	2
C3C7H-C3C8H	50119-50120	Import Real Energy: Phase B	0~999999999 Wh		int32	R/W	2

SunSpec							
Address(H)	**Address(D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**	**Number of Registers**
C3C9H-C3CAH	50121-50122	Import Real Energy: Phase C	0~999999999 Wh		int32	R/W	2
C3CBH	50123	Real Energy Scale Factor	0,2(used as an exponent of a power of 10)		sunssf	R	1
C3CCH-C3CDH	50124-50125	Total Apparent Energy	0~999999999 VAh		int32	R/W	2
C3CEH-C3CFH	50126-50127	Apparent Energy: Phase A	0~999999999 VAh		int32	R/W	2
C3D0H-C3D1H	50128-50129	Apparent Energy: Phase B	0~999999999 VAh		int32	R/W	2
C3D2H-C3D3H	50130-50131	Apparent Energy: Phase C	0~999999999 VAh		int32	R/W	2
C3D4H	50132	Apparent Energy Scale Factor	0,2(used as an exponent of a power of 10)		sunssf	R	1
C3D5H-C3D6H	50133-50134	Total Reactive Energy: Export	0~999999999 varh		int32	R/W	2
C3D7H-C3D8H	50135-50136	Export Reactive Energy: Phase A	0~999999999 varh		int32	R/W	2
C3D9H-C3DAH	50137-50138	Export Reactive Energy: Phase B	0~999999999 varh		int32	R/W	2
C3DBH-C3DCH	50139-50140	Export Reactive Energy: Phase C	0~999999999 varh		int32	R/W	2
C3DDH-C3DEH	50141-50142	Total Reactive Energy: Import	0~999999999 varh		int32	R/W	2
C3DFH-C3E0H	50143-50144	Import Reactive Energy: Phase A	0~999999999 varh		int32	R/W	2
C3E1H-C3E2H	50145-50146	Import Reactive Energy: Phase B	0~999999999 varh		int32	R/W	2
C3E3H-C3E4H	50174-50148	Import Reactive Energy: Phase C	0~999999999 varh		int32	R/W	2
C3E5H	50149	Reactive Power Scale Factor	0,2 (used as an exponent of a power of 10)		sunssf	R	1
C3E6H-C3E7H	50150-50151	Meter Event Flags	0		Binary	R	2
C3E8H	50152	SunSpec_end_ID: Sunspec	FFFF		int16		1
C3E9H	50153	SunSpec_end_ID: Sunspec	0		int16		1