System Parameter Settings

Parameter Settings: 03H Read, 16H Write						
Address(H)	**Address(D)**	**Parameter**	**Range**	**Default**	**Data Type**	**Access Property**
0100H	0256	Access code	0~9999	0	Word	R/W
0101H	0257	Communication address	1~247	1	Word	R/W
0102H	0258	Baud rate	1200~57600	38400	Word	R/W
0103H	0259	Voltage wiring type	0: 3LN 1: 3LL 2: 2LL 3: 1LN 4: 1LL	0	Word	R/W
0104H	0260	Current wiring type	0: 3CT 1: 1CT 2: 2CT	0	Word	R/W
0105H	0261	PT1(high 16 bit)	50.0~1000000.0	0	Word	R/W
0106H	0262	PT1(low 16 bit)	50.0~1000000.0	400.0	Word	R/W
0107H	0263	PT2	50.0~400.0	400.0	Word	R/W
0108H	0264	CT1	1~50000	5*	Word	R/W
0109H	0265	CT2	1,5 or 333(333mV)	5*	Word	R/W
010AH	0266	Definition of reactive power	0: sinusoidal 1:non-sinusoidal	0	Word	R/W
010BH	0267	Back light time	0~120(min)	1	Word	R/W
010CH	0268	Time of demand slide window	1~30	15	Word	R/W
010DH	0269	Clear max	0AH:clear	0	Word	R/W
010EH	0270	Clear energy enable	0:disable 1:enable	0	Word	R/W
010FH	0271	Clear energy	0:disable 0AH:enable	0	Word	R/W
0110H	0272	Clear run hour	0AH:clear other:do not clear	0	Word	R/W
0111H	0273	Clear load hour	0AH:clear other:do not clear	0	Word	R/W
0112H	0274	Parity check choice	0:EVEN 1:ODD 2:NONE2 3:NONE1	3	Word	R/W
0113H	0275	VAR/PF choice	0:IEC; 1:IEEE	0	Word	R/W
0114H	0276	H Sharp tariff demand clear	0AH:clear other:do not clear	0	Word	R/W
0115H	0277	Peak tariff demand clear	0AH:clear other:do not clear	0	Word	R/W
0116H	0278	Valley tariff demand clear	0AH:clear other:do not clear	0	Word	R/W
0117H	0279	Normal tariff demand clear	0AH:clear other:do not clear	0	Word	R/W
0118H	0280	Total tariff demand clear	0AH:clear other:do not clear	0	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

Clock Settings

Clock Settings: 03H Read, 16H Write					
Address(H)	**Address(D)**	**Parameter**	**Range**	**Data Type**	**Access Property**
0184H	388	Year	2000~2099	Word	R/W
0185H	389	Month	1~12	Word	R/W
0186H	390	Day	1~31	Word	R/W
0187H	391	Hour	0~23	Word	R/W
0188H	392	Minute	0-59	Word	R/W
0189H	393	Second	0-59	Word	R/W
018AH	394	Week	0~6	Word	R/W

Basic Real-time Parameters

The data address of basis measurements includes primary data address and secondary data address.

Secondary data address of basic measurements: 03H Read							
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
130H	304	F	Frequency	4500~6500	Hz	word	R
131H	305	U1	Phase 1 Voltage	0~65535	V	word	R
132H	306	U2	Phase 2 Voltage	0~65535	V	word	R
133H	307	U3	Phase 3 Voltage	0~65535	V	word	R
134H	308	U12	Line Voltage 1-2	0~65535	V	word	R
135H	309	U23	Line Voltage 2-3	0~65535	V	word	R
136H	310	U31	Line Voltage 3-1	0~65535	V	word	R
137H	311	I1	Total Phase A Current	0~65535	A	word	R
138H	312	I2	Total Phase B Current	0~65535	A	word	R
139H	313	I3	Total Phase C Current	0~65535	A	word	R
13AH	314	In	Neutral Current	0~65535	A	word	R
13BH	315	Pa	Phase A Power	-32768~32767	kW	integer	R
13CH	316	Pb	Phase B Power	-32768~32767	kW	integer	R
13DH	317	Pc	Phase C Power	-32768~32767	kW	integer	R
13EH	318	Psum	Total System Power	-32768~32767	kW	integer	R
13FH	319	Qa	Phase A Reactive Power	-32768~32767	kvar	integer	R
140H	320	Qb	Phase B Reactive Power	-32768~32767	kvar	integer	R
141H	321	Qc	Phase C Reactive Power	-32768~32767	kvar	integer	R
142H	322	Qsum	Total Reactive Power	-32768~32767	kvar	integer	R
143H	323	Ssum	Total Apparent Power	0~65535	kVA	word	R
144H	324	PFa	Phase A Power Factor	-1000~1000	No Unit	integer	R

145H	325	PFb	Phase B Power Factor	-1000~1000	No Unit	integer	R
146H	326	PFc	Phase C Power Factor	-1000~1000	No Unit	integer	R
147H	327	PFsum	Total Power Factor	-1000~1000	No Unit	integer	R
148H	328	U_unbl	Voltage Unbalance	0~1000	%	word	R
149H	329	I_unbl	Current Unbalance	0~1000	%	word	R
14AH	330	L/C/R	Load Characteristic	76.0(L) 67.0(C) 82.0(R)		word	R
14BH	331	Sa	Phase A Apparent Power	-32768~32767	kVA	integer	R
14CH	332	Sb	Phase B Apparent Power	-32768~32767	kVA	integer	R
14DH	333	Sc	Phase C Apparent Power	-32768~32767	kVA	integer	R
14EH	334		Reserved				
14FH	335	S_Dmd	Apparent Power Demand	-32768~32767	kvar	integer	R
150H	336	P_Dmd	Power Demand	-32768~32767	kW	integer	R
151H	337	Q_Dmd	Reactive Power Demand	-32768~32767	kVA	integer	R
152H	338	I1_Dmd	Phase A Current Demand	0~65535	A	word	R
153H	339	I2_Dmd	Phase B Current Demand	0~65535	A	word	R
154H	340	I3_Dmd	Phase C Current Demand	0~65535	A	word	R
155H	341		Reserved				

Primary data address of basic measurements: 03H Read							
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
0600H~0601H	1536~1537	F	Frequency	4500~6500	Hz	float	R
0602H~0603H	1538~1539	U1	Phase 1 Voltage	0~65535	V	float	R
0604H~0605H	1540~1541	U2	Phase 2 Voltage	0~65535	V	float	R
0606H~0607H	1542~1543	U3	Phase 3 Voltage	0~65535	V	float	R
0608H~0609H	1544~1545	U12	Line Voltage 1-2	0~65535	V	float	R
060AH~060BH	1546~1547	U23	Line Voltage 2-3	0~65535	V	float	R
060CH~060DH	1548~1549	U31	Line Voltage 3-1	0~65535	V	float	R
060EH~060FH	1550~1551	I1	Total Phase A Current	0~65535	A	float	R
0610H~0611H	1552~1553	I2	Total Phase B Current	0~65535	A	float	R
0612H~0613H	1554~1555	I3	Total Phase C Current	0~65535	A	float	R
0614H~0615H	1556~1557	In	Neutral Current	0~65535	A	float	R
0616H~0617H	1558~1559	Pa	Phase A Power	-32768~32767	kW	float	R
0618H~0619H	1560~1561	Pb	Phase B Power	-32768~32767	kW	float	R
061AH~061BH	1562~1563	Pc	Phase C Power	-32768~32767	kW	float	R
061CH~061DH	1564~1565	Psum	Total System Power	-32768~32767	kW	float	R

061EH~061FH	1566~1567	Qa	Phase A Reactive Power	-32768~32767	kvar	float	R
0620H~0621H	1568~1569	Qb	Phase B Reactive Power	-32768~32767	kvar	float	R
0622H~0623H	1570~1571	Qc	Phase C Reactive Power	-32768~32767	kvar	float	R
0624H~0625H	1572~1573	Qsum	Total Reactive Power	-32768~32767	kvar	float	R
0626H~0627H	1574~1575	Ssum	Total Apparent Power	0~65535	kVA	float	R
0628H~0629H	1576~1577	PFa	Phase A Power Factor	-1000~1000	No Unit	float	R
062AH~062BH	1578~1579	PFb	Phase B Power Factor	-1000~1000	No Unit	float	R
062CH~062DH	1580~1581	PFc	Phase C Power Factor	-1000~1000	No Unit	float	R
062EH~062FH	1582~1583	PFsum	Total Power Factor	-1000~1000	No Unit	float	R
0630H~0631H	1584~1585	U_unbl	Voltage Unbalance	0~1000	%	float	R
0632H~0633H	1586~1587	I_unbl	Current Unbalance	0~1000	%	float	R
0634H~0635H	1588~1589		Reserved				
0636H~0637H	1590~1591	Sa	Phase A Apparent Power	-32768~32767	kVA	float	R
0638H~0639H	1592~1593	Sb	Phase B Apparent Power	-32768~32767	kVA	float	R
063AH~063BH	1594~1595	Sc	Phase C Apparent Power	-32768~32767	kVA	float	R
063CH~063DH	1596~1597		Reserved				
063EH~063FH	1598~1599	S_Dmd	Apparent Power Demand	-32768~32767	kvar	float	R
0640H~0641H	1600~1601	P_Dmd	Power Demand	-32768~32767	kW	float	R
0642H~0643H	1602~1603	Q_Dmd	Reactive Power Demand	-32768~32767	kVA	float	R
0644H~0645H	1604~1605	I1_Dmd	Phase A Current Demand	0~65535	A	float	R
0646H~0647H	1606~1607	I2_Dmd	Phase B Current Demand	0~65535	A	float	R
0648H~0649H	1608~1609	I3_Dmd	Phase C Current Demand	0~65535	A	float	R
064AH~064BH	1610~1611		Reserved				

Harmonics

Power quality measurements: 03H Read					
Address(H)	**Address(D)**	**Parameter**	**Range**	**Data Type**	**Access Property**
400H	1024	Total harmonic distortion of V1 or V12; THD_V1	0~10000	Word	R
401H	1025	Total harmonic distortion of V2 or V23; THD_V2	0~10000	Word	R
402H	1026	Total harmonic distortion of V3 or V31; THD_V3	0~10000	Word	R
403H	1027	Total harmonic distortion of I1; THD_I1	0~10000	Word	R
404H	1028	Total harmonic distortion of I2; THD_I2	0~10000	Word	R
405H	1029	Total harmonic distortion of I3; THD_I3	0~10000	Word	R
406H	1030	2nd Harmonic content of V1 or V12	0~10000	Word	R
407H	1031	3rd Harmonic content of V1 or V12	0~10000	Word	R

408H	1032	4th Harmonic content of V1 or V12	0~10000	Word	R
409H	1033	5th Harmonic content of V1 or V12	0~10000	Word	R
40AH	1034	6th Harmonic content of V1 or V12	0~10000	Word	R
40BH	1035	7th Harmonic content of V1 or V12	0~10000	Word	R
40CH	1036	8th Harmonic content of V1 or V12	0~10000	Word	R
40DH	1037	9th Harmonic content of V1 or V12	0~10000	Word	R
40EH	1038	10th Harmonic content of V1 or V12	0~10000	Word	R
40FH	1039	11th Harmonic content of V1 or V12	0~10000	Word	R
410H	1040	12th Harmonic content of V1 or V12	0~10000	Word	R
411H	1041	13th Harmonic content of V1 or V12	0~10000	Word	R
412H	1042	14th Harmonic content of V1 or V12	0~10000	Word	R
413H	1043	15th Harmonic content of V1 or V12	0~10000	Word	R
414H	1044	16th Harmonic content of V1 or V12	0~10000	Word	R
415H	1045	17th Harmonic content of V1 or V12	0~10000	Word	R
416H	1046	18th Harmonic content of V1 or V12	0~10000	Word	R
417H	1047	19th Harmonic content of V1 or V12	0~10000	Word	R
418H	1048	20th Harmonic content of V1 or V12	0~10000	Word	R
419H	1049	21st Harmonic content of V1 or V12	0~10000	Word	R
41AH	1050	22nd Harmonic content of V1 or V12	0~10000	Word	R
41BH	1051	23rd Harmonic content of V1 or V12	0~10000	Word	R
41CH	1052	24th Harmonic content of V1 or V12	0~10000	Word	R
41DH	1053	25th Harmonic content of V1 or V12	0~10000	Word	R
41EH	1054	26th Harmonic content of V1 or V12	0~10000	Word	R
41FH	1055	27th Harmonic content of V1 or V12	0~10000	Word	R
420H	1056	28th Harmonic content of V1 or V12	0~10000	Word	R
421H	1057	29th Harmonic content of V1 or V12	0~10000	Word	R
422H	1058	30th Harmonic content of V1 or V12	0~10000	Word	R
423H	1059	31st Harmonic content of V1 or V12	0~10000	Word	R
424H	1060	2nd Harmonic content of V2 or V23	0~10000	Word	R
425H	1061	3rd Harmonic content of V2 or V23	0~10000	Word	R
426H	1062	4th Harmonic content of V2 or V23	0~10000	Word	R
427H	1063	5th Harmonic content of V2 or V23	0~10000	Word	R
428H	1064	6th Harmonic content of V2 or V23	0~10000	Word	R
429H	1065	7th Harmonic content of V2 or V23	0~10000	Word	R
42AH	1066	8th Harmonic content of V2 or V23	0~10000	Word	R

42BH	1067	9th Harmonic content of V2 or V23	0~10000	Word	R
42CH	1068	10th Harmonic content of V2 or V23	0~10000	Word	R
42DH	1069	11th Harmonic content of V2 or V23	0~10000	Word	R
42EH	1070	12th Harmonic content of V2 or V23	0~10000	Word	R
42FH	1071	13th Harmonic content of V2 or V23	0~10000	Word	R
430H	1072	14th Harmonic content of V2 or V23	0~10000	Word	R
431H	1073	15th Harmonic content of V2 or V23	0~10000	Word	R
432H	1074	16th Harmonic content of V2 or V23	0~10000	Word	R
433H	1075	17th Harmonic content of V2 or V23	0~10000	Word	R
434H	1076	18th Harmonic content of V2 or V23	0~10000	Word	R
435H	1077	19th Harmonic content of V2 or V23	0~10000	Word	R
436H	1078	20th Harmonic content of V2 or V23	0~10000	Word	R
437H	1079	21st Harmonic content of V2 or V23	0~10000	Word	R
438H	1080	22nd Harmonic content of V2 or V23	0~10000	Word	R
439H	1081	23rd Harmonic content of V2 or V23	0~10000	Word	R
43AH	1082	24th Harmonic content of V2 or V23	0~10000	Word	R
43BH	1083	25th Harmonic content of V2 or V23	0~10000	Word	R
43CH	1084	26th Harmonic content of V2 or V23	0~10000	Word	R
43DH	1085	27th Harmonic content of V2 or V23	0~10000	Word	R
43EH	1086	28th Harmonic content of V2 or V23	0~10000	Word	R
43FH	1087	29th Harmonic content of V2 or V23	0~10000	Word	R
440H	1088	30th Harmonic content of V2 or V23	0~10000	Word	R
441H	1089	31th Harmonic content of V2 or V23	0~10000	Word	R
442H	1090	2nd Harmonic content of V3 or V31	0~10000	Word	R
443H	1091	3rd Harmonic content of V3 or V31	0~10000	Word	R
444H	1092	4th Harmonic content of V3 or V31	0~10000	Word	R
445H	1093	5th Harmonic content of V3 or V31	0~10000	Word	R
446H	1094	6th Harmonic content of V3 or V31	0~10000	Word	R
447H	1095	7th Harmonic content of V3 or V31	0~10000	Word	R
448H	1096	8th Harmonic content of V3 or V31	0~10000	Word	R
449H	1097	9th Harmonic content of V3 or V31	0~10000	Word	R
44AH	1098	10th Harmonic content of V3 or V31	0~10000	Word	R
44BH	1099	11th Harmonic content of V3 or V31	0~10000	Word	R
44CH	1100	12th Harmonic content of V3 or V31	0~10000	Word	R
44DH	1101	13th Harmonic content of V3 or V31	0~10000	Word	R

44EH	1102	14th Harmonic content of V3 or V31	0~10000	Word	R
44FH	1103	15th Harmonic content of V3 or V31	0~10000	Word	R
450H	1104	16th Harmonic content of V3 or V31	0~10000	Word	R
451H	1105	17th Harmonic content of V3 or V31	0~10000	Word	R
452H	1106	18th Harmonic content of V3 or V31	0~10000	Word	R
453H	1107	19th Harmonic content of V3 or V31	0~10000	Word	R
454H	1108	20th Harmonic content of V3 or V31	0~10000	Word	R
455H	1109	21st Harmonic content of V3 or V31	0~10000	Word	R
456H	1110	22nd Harmonic content of V3 or V31	0~10000	Word	R
457H	1111	23rd Harmonic content of V3 or V31	0~10000	Word	R
458H	1112	24th Harmonic content of V3 or V31	0~10000	Word	R
459H	1113	25th Harmonic content of V3 or V31	0~10000	Word	R
45AH	1114	26th Harmonic content of V3 or V31	0~10000	Word	R
45BH	1115	27th Harmonic content of V3 or V31	0~10000	Word	R
45CH	1116	28th Harmonic content of V3 or V31	0~10000	Word	R
45DH	1117	29th Harmonic content of V3 or V31	0~10000	Word	R
45EH	1118	30th Harmonic content of V3 or V31	0~10000	Word	R
45FH	1119	31st Harmonic content of V3 or V31	0~10000	Word	R
460H	1120	2nd Harmonic content of I1	0~10000	Word	R
461H	1121	3rd Harmonic content of I1	0~10000	Word	R
462H	1122	4th Harmonic content of I1	0~10000	Word	R
463H	1123	5th Harmonic content of I1	0~10000	Word	R
464H	1124	6th Harmonic content of I1	0~10000	Word	R
465H	1125	7th Harmonic content of I1	0~10000	Word	R
466H	1126	8th Harmonic content of I1	0~10000	Word	R
467H	1127	9th Harmonic content of I1	0~10000	Word	R
468H	1128	10th Harmonic content of I1	0~10000	Word	R
469H	1129	11th Harmonic content of I1	0~10000	Word	R
46AH	1130	12th Harmonic content of I1	0~10000	Word	R
46BH	1131	13th Harmonic content of I1	0~10000	Word	R
46CH	1132	14th Harmonic content of I1	0~10000	Word	R
46DH	1133	15th Harmonic content of I1	0~10000	Word	R
46EH	1134	16th Harmonic content of I1	0~10000	Word	R
46FH	1135	17th Harmonic content of I1	0~10000	Word	R
470H	1136	18th Harmonic content of I1	0~10000	Word	R

471H	1137	19th Harmonic content of I1	0~10000	Word	R
472H	1138	20th Harmonic content of I1	0~10000	Word	R
473H	1139	21st Harmonic content of I1	0~10000	Word	R
474H	1140	22nd Harmonic content of I1	0~10000	Word	R
475H	1141	23rd Harmonic content of I1	0~10000	Word	R
476H	1142	24th Harmonic content of I1	0~10000	Word	R
477H	1143	25th Harmonic content of I1	0~10000	Word	R
478H	1144	26th Harmonic content of I1	0~10000	Word	R
479H	1145	27th Harmonic content of I1	0~10000	Word	R
47AH	1146	28th Harmonic content of I1	0~10000	Word	R
47BH	1147	29th Harmonic content of I1	0~10000	Word	R
47CH	1148	30th Harmonic content of I1	0~10000	Word	R
47DH	1149	31st Harmonic content of I1	0~10000	Word	R
47EH	1150	2nd Harmonic content of I2	0~10000	Word	R
47FH	1151	3rd Harmonic content of I2	0~10000	Word	R
480H	1152	4th Harmonic content of I2	0~10000	Word	R
481H	1153	5th Harmonic content of I2	0~10000	Word	R
482H	1154	6th Harmonic content of I2	0~10000	Word	R
483H	1155	7th Harmonic content of I2	0~10000	Word	R
484H	1156	8th Harmonic content of I2	0~10000	Word	R
485H	1157	9th Harmonic content of I2	0~10000	Word	R
486H	1158	10th Harmonic content of I2	0~10000	Word	R
487H	1159	11th Harmonic content of I2	0~10000	Word	R
488H	1160	12th Harmonic content of I2	0~10000	Word	R
489H	1161	13th Harmonic content of I2	0~10000	Word	R
48AH	1162	14th Harmonic content of I2	0~10000	Word	R
48BH	1163	15th Harmonic content of I2	0~10000	Word	R
48CH	1164	16th Harmonic content of I2	0~10000	Word	R
48DH	1165	17th Harmonic content of I2	0~10000	Word	R
48EH	1166	18th Harmonic content of I2	0~10000	Word	R
48FH	1167	19th Harmonic content of I2	0~10000	Word	R
490H	1168	20th Harmonic content of I2	0~10000	Word	R
491H	1169	21st Harmonic content of I2	0~10000	Word	R
492H	1170	22nd Harmonic content of I2	0~10000	Word	R
493H	1171	23rd Harmonic content of I2	0~10000	Word	R

494H	1172	24th Harmonic content of I2	0~10000	Word	R
495H	1173	25th Harmonic content of I2	0~10000	Word	R
496H	1174	26th Harmonic content of I2	0~10000	Word	R
497H	1175	27th Harmonic content of I2	0~10000	Word	R
498H	1176	28th Harmonic content of I2	0~10000	Word	R
499H	1177	29th Harmonic content of I2	0~10000	Word	R
49AH	1178	30th Harmonic content of I2	0~10000	Word	R
49BH	1179	31st Harmonic content of I2	0~10000	Word	R
49CH	1180	2nd Harmonic content of I3	0~10000	Word	R
49DH	1181	3rd Harmonic content of I3	0~10000	Word	R
49EH	1182	4th Harmonic content of I3	0~10000	Word	R
49FH	1183	5th Harmonic content of I3	0~10000	Word	R
4A0H	1184	6th Harmonic content of I3	0~10000	Word	R
4A1H	1185	7th Harmonic content of I3	0~10000	Word	R
4A2H	1186	8th Harmonic content of I3	0~10000	Word	R
4A3H	1187	9th Harmonic content of I3	0~10000	Word	R
4A4H	1188	10th Harmonic content of I3	0~10000	Word	R
4A5H	1189	11th Harmonic content of I3	0~10000	Word	R
4A6H	1190	12th Harmonic content of I3	0~10000	Word	R
4A7H	1191	13th Harmonic content of I3	0~10000	Word	R
4A8H	1192	14th Harmonic content of I3	0~10000	Word	R
4A9H	1193	15th Harmonic content of I3	0~10000	Word	R
4AAH	1194	16th Harmonic content of I3	0~10000	Word	R
4ABH	1195	17th Harmonic content of I3	0~10000	Word	R
4ACH	1196	18th Harmonic content of I3	0~10000	Word	R
4ADH	1197	19th Harmonic content of I3	0~10000	Word	R
4AEH	1198	20th Harmonic content of I3	0~10000	Word	R
4AFH	1199	21st Harmonic content of I3	0~10000	Word	R
4B0H	1200	22nd Harmonic content of I3	0~10000	Word	R
4B1H	1201	23rd Harmonic content of I3	0~10000	Word	R
4B2H	1202	24th Harmonic content of I3	0~10000	Word	R
4B3H	1203	25th Harmonic content of I3	0~10000	Word	R
4B4H	1204	26th Harmonic content of I3	0~10000	Word	R
4B5H	1205	27th Harmonic content of I3	0~10000	Word	R
4B6H	1206	28th Harmonic content of I3	0~10000	Word	R

4B7H	1207	29th Harmonic content of I3	0~10000	Word	R
4B8H	1208	30th Harmonic content of I3	0~10000	Word	R
4B9H	1209	31st Harmonic content of I3	0~10000	Word	R

MIN/MAX

MAX&MIN: 03H Read						
Address(H)	**Address(D)**	**Parameter**	**Property**	**Range**	**Data Type**	**Access Property**
1000H	4096	Max of V1	V	0~65535	word	R
1001H-1003H	4097-4099	Time Stamp(format:yy mm/dd hh/mm ss)			word	R
1004H	4100	Max of V2	V	0~65535	word	R
1005H-1007H	4101-4103	Time Stamp			word	R
1008H	4104	Max of V3	V	0~65535	word	R
1009H-100BH	4105-4107	Time Stamp			word	R
100CH	4108	Max of V12	V	0~65535	word	R
100DH-100FH	4109-4111	Time Stamp			word	R
1010H	4112	Max of V23	V	0~65535	word	R
1011H-1013H	4113-4115	Time Stamp			word	R
1014H	4116	Max of V31	V	0~65535	word	R
1015H-1017H	4117-4119	Time Stamp			word	R
1018H	4120	Max of I1	A	0~65535	word	R
1019H-101BH	4121-4123	Time Stamp			word	R
101CH	4124	Max of I2	A	0~65535	word	R
101DH-101FH	4125-4127	Time Stamp			word	R
1020H	4128	Max of I3	A	0~65535	word	R
1021H-1023H	4129-4131	Time Stamp			word	R
1024H	4132	Max of power demand PDmd_MAX	kW	-32768~32767	int	R
1025H-1027H	4133-4135	Time Stamp			int	R
1028H	4136	Max of reactive power demand	kvar	-32768~32767	int	R
1029H-102BH	4137-4139	Time Stamp			int	R
102CH	4140	Max of current demand Ia	A	0~65535	word	R
102DH-102FH	4141-4143	Time Stamp			word	R
1030H	4144	Max of current demand Ib	A	0~65535	word	R
1031H-1033H	4145-4147	Time Stamp			word	R
1034H	4148	Max of current demand Ic	A	0~65535	word	R

1035H-1037H	4149-4151	Time Stamp			word	R
1038H	4152	Max of apparent power demand	kVA	0~65535	word	R
1039H-103BH	4153-4155	Time Stamp			word	R
103CH	4156	Min of V1	V	0~65535	word	R
103DH-103FH	4157-4158	Time Stamp			word	R
1040H	4159	Min of V2	V	0~65535	word	R
1041H-1043H	4160-4162	Time Stamp			word	R
1044H	4163	Min of V3	V	0~65535	word	R
1045H-1047H	4164-4166	Time Stamp			word	R
1048H	4167	Min of V12	V	0~65535	word	R
1049H~104BH	4168-4170	Time Stamp			word	R
104CH	4171	Min of V23	V	0~65535	word	R
104DH-104FH	4172-4174	Time Stamp			word	R
1050H	4175	Min of V31	V	0~65535	word	R
1051H-1053H	4176-4178	Time Stamp			word	R
1054H	4179	Min of I1	A	0~65535	word	R
1055H-1057H	4180-4182	Time Stamp			word	R
1058H	4183	Min of I2	A	0~65535	word	R
1059H-105BH	4184-4186	Time Stamp			word	R
105CH	4187	Min of I3	A	0~65535	word	R
105DH-105FH	4188-4190	Time Stamp			word	R

Energy Parameters

Data address of real time energy: 03H Read; 16 preset							
Address(H)	**Address(D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
0156H-0157H	342-343	Ep_Imp	Import energy	0~999999999	kWh	Dword	R/W
0158H-0159H	344-345	Ep_Exp	Export energy	0~999999999	kWh	Dword	R/W
015AH-015BH	346-347	Eq_Imp	Import reactive energy	0~999999999	kvarh	Dword	R/W
015CH-015DH	348-349	Eq_Exp	Export reactive energy	0~999999999	kvarh	Dword	R/W
015EH-015FH	350-351	Es	Apparent energy	0~999999999	kVAh	Dword	R/W
0160H-0161H	352-353	Epa_imp	Phase-A import energy	0~999999999	kWh	Dword	R/W
0162H-0163H	354-355	Epa_exp	Phase-A export energy	0~999999999	kWh	Dword	R/W
0164H-0165H	356-357	Epb_imp	Phase-B import energy	0~999999999	kWh	Dword	R/W
0166H-0167H	358-359	Epb_exp	Phase-B export energy	0~999999999	kWh	Dword	R/W
0168H-0169H	360-361	Epc_Imp	Phase-C import energy	0~999999999	kWh	Dword	R/W

016AH-016BH	362-363	Epc_Exp	Phase-C Export energy	0~999999999	kWh	Dword	R/W
016CH-016DH	364-365	Eqa_imp	Phase-A reactive import energy	0~999999999	kvarh	Dword	R/W
016EH-016FH	366-367	Eqa_Exp	Phase-A reactive export energy	0~999999999	kvarh	Dword	R/W
0170H-0171H	368-369	Eqb_Imp	Phase-B reactive import Energy	0~999999999	kvarh	Dword	R/W
0172H-0173H	370-371	Eqb_Exp	Phase B reactive export Energy	0~999999999	kvarh	Dword	R/W
0174H-0175H	372-373	Eqc_Imp	Phase C reactive import Energy	0~999999999	kvarh	Dword	R/W
0176H-0177H	374-375	Eqc_Exp	Phase C reactive export Energy	0~999999999	kvarh	Dword	R/W
0178H-0179H	376-377	Es_a	Phase A apparent energy	0~999999999	kVAh	Dword	R/W
017AH-017BH	378-379	Es_b	Phase B apparent energy	0~999999999	kVAh	Dword	R/W
017CH-017DH	380-381	Es_c	Phase C apparent energy	0~999999999	kVAh	Dword	R/W

TOU Energy

Current month accumulation TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
Sharp							
200H-201H	512-513	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
202H-203H	514-515	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
204H-205H	516-517	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
206H-207H	518-519	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
208H-209H	520-521	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Peak							
20AH-20BH	522-523	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
20CH-20DH	524-525	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
20EH-20FH	526-527	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
210H-211H	528-529	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
212H-213H	530-531	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Valley							
214H-215H	532-533	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
216H-217H	534-535	Ep_Exp	Generated Energy	0-999999999	KWh	Dword	R/W
218H-219H	536-537	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
21AH-21BH	538-539	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
21CH-21DH	540-541	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Normal							
21EH-21FH	542-543	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
220H-221H	544-545	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W

222H-223H	546-547	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
224H-225H	548-549	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
226H-227H	550-551	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Total							
228H-229H	552-553	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
22AH-22BH	554-555	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
22CH-22DH	556-557	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
22EH-22FH	558-559	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
230H-231H	560-561	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Last month accumulation TOU Energy: 03H Read							
Address (H)	**Address (D)**	**Symbol**	**Parameter**	**Range**	**Property**	**Data Type**	**Access Property**
Sharp							
232H-233H	562-563	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
234H-235H	564-565	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
236H-237H	566-567	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
238H-239H	568-569	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
23AH-23BH	570-571	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Peak							
23CH-23DH	572-573	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
23EH-23FH	574-575	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
240H-241H	576-577	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
242H-243H	578-579	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
244H-245H	580-581	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Valley							
246H-247H	582-583	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
248H-249H	584-585	Ep_Exp	Generated Energy	0-999999999	KWh	Dword	R/W
24AH-24BH	586-587	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
24CH-24DH	588-589	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
24EH-24FH	590-591	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Normal							
250H-251H	592-593	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
252H-253H	594-595	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
254H-255H	596-597	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
256H-257H	598-599	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W

258H-259H	600-601	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W
Total							
25AH-25BH	602-603	Ep_Imp	Consumed Energy	0-999999999	kWh	Dword	R/W
25CH-25DH	604-605	Ep_Exp	Generated Energy	0-999999999	kWh	Dword	R/W
25EH-25FH	606-607	Eq_Imp	Consumed Reactive Energy	0-999999999	kvarh	Dword	R/W
260H-261H	608-609	Eq_Exp	Generated Reactive Energy	0-999999999	kvarh	Dword	R/W
262H-263H	610-611	Es	Apparent Energy	0-999999999	kVAh	Dword	R/W

Data address of TOU

Basis parameter of TOU :03 Read; 16 Preset					
Address(H)	**Address(D)**	**Parameter**	**Range**	**Data type**	**Access property**
0800H	2048	Number of time zone	0~12	word	R/W
0801H	2049	Number of time table	0~14	word	R/W
0802H	2050	Number of time interval	0~14	word	R/W
0803H	2051	Fee	0~3	word	R/W
0804H	2052	Weekly rest	0~127	word	R/W
0805H	2053	Time table of weekly rest	0~14	word	R/W
0806H	2054	Number of special day	0~30	word	R/W
0807H	2055	Function enable of TOU	1: enable	word	R/W
0808H	2056	Initialization of TOU	1: enable	word	R/W
0809H	2057	Choice of calculation	0: end of month / 1: setting day	word	R/W
080AH	2058	The time of calculation: day	1~31	word	R/W
080BH	2059	The time of calculation: hour	0~23	word	R/W
080CH	2060	The time of calculation: minute	0~59	word	R/W
080DH	2061	The time of calculation: second	0~59	word	R/W
080EH	2062	TOU energy parameter setting error status word	0: the setting of parameter is correct; 1: the fee in parameter setting is error; 2: the time interval num is error; 4: the time table number is error; 8: the time zone number is error; 16: the parameter setting in time zone is error; 32: the special day number is error; 64: the parameter setting in special day is error; 256: the fee in time table is error; 512: the time setting in time table is error 1024: the time interval in time table is error; 2048: the time interval of week rest is error; 4096: the setting parameter of weekend is error;		
Time zone setting parameter of TOU					
0820H-0822H	2080-2082	Date and the time table of the 1st time zone		Word	R/W

0823H-0825H	2083-2085	Date and the time table of the 2nd time zone		Word	R/W
0826H-0828H	2086-2088	Date and the time table of the 3rd time zone		Word	R/W
0829H-082BH	2089-2091	Date and the time table of the 4th time zone		Word	R/W
082CH-082EH	2092-2094	Date and the time table of the 5th time zone		Word	R/W
082FH-0831H	2095-2097	Date and the time table of the 6th time zone		Word	R/W
0832H-0834H	2098-2100	Date and the time table of the 7th time zone		Word	R/W
0835H-0837H	2101-2103	Date and the time table of the 8th time zone		Word	R/W
0838H-083AH	2104-2106	Date and the time table of the 9th time zone		Word	R/W
083BH-083DH	2107-2109	Date and the time table of the 10th time zone		Word	R/W
083EH-0840H	2110-2112	Date and the time table of the 11th time zone		Word	R/W
0841H-0843H	2113-2115	Date and the time table of the 12th time zone		Word	R/W
Time table parameter of TOU					
0844H-0846H	2116-2118	1st time interval and fee of the 1st time		Word	R/W
0847H-0849H	2119-2121	2nd time interval and fee of the 1st time		Word	R/W
084AH-084CH	2122-2124	3rd time interval and fee of the 1st time		Word	R/W
084DH-084FH	2125-2127	4th time interval and fee of the 1st time		Word	R/W
0850H-0852H	2128-2130	5th time interval and fee of the 1st time		Word	R/W
0853H-0855H	2131-2133	6th time interval and fee of the 1st time		Word	R/W
0856H-0858H	2134-2136	7th time interval and fee of the 1st time		Word	R/W
0859H-085BH	2137-2139	8th time interval and fee of the 1st time		Word	R/W
085CH-085EH	2140-2142	9th time interval and fee of the 1st time		Word	R/W
085FH-0861H	2143-2145	10th time interval and fee of the 1st time		Word	R/W
0862H-0864H	2146-2148	11th time interval and fee of the 1st time		Word	R/W
0865H-0867H	2149-2151	12th time interval and fee of the 1st time		Word	R/W
0868H-086AH	2152-2154	13th time interval and fee of the 1st time		Word	R/W
086BH-086DH	2155-2157	14th time interval and fee of the 1st time		Word	R/W
086EH-0897H	2158-2199	From 1st to 14th time interval and fee of the 2nd time table	The same as 1st time table	Word	R/W
0898H-08C1H	2200-2241	From 1st to 14th time interval and fee of the 3rd time table	The same as 1st time table	Word	R/W
08C2H-08EBH	2242-2283	From 1st to 14th time interval and fee of the 4th time table	The same as 1st time table	Word	R/W
08ECH-0915H	2284-2325	From 1st to 14th time interval and fee of the 5th time table	The same as 1st time table	Word	R/W

0916H-093FH	2326-2367	From 1st to 14th time interval and fee of the 6th time table	The same as 1st time table	Word	R/W
0940H-0969H	2368-2409	From 1st to 14th time interval and fee of the 7th time table	The same as 1st time table	Word	R/W
096AH-0993H	2410-2451	From 1st to 14th time interval and fee of the 8th time table	The same as 1st time table	Word	R/W
0994H-09BDH	2452-2493	From 1st to 14th time interval and fee of the 9th time table	The same as 1st time table	Word	R/W
09BEH-09E7H	2494-2535	From 1st to 14th time interval and fee of the 10th time table	The same as 1st time table	Word	R/W
09E8H-0A11H	2536-2577	From 1st to 14th time interval and fee of the 11th time table	The same as 1st time table	Word	R/W
0A12H-0A3BH	2578-2619	From 1st to 14th time interval and fee of the 12th time table	The same as 1st time table	Word	R/W
0A3CH-0A65H	2620-2661	From 1st to 14th time interval and fee of the 13th time table	The same as 1st time table	Word	R/W
0A66H-0A8FH	2662-2703	From 1st to 14th time interval and fee of the 14th time table	The same as 1st time table	Word	R/W
Special day parameter of TOU					
0A90H-0A92H	2704-2706	Data and the time table of the 1st holiday		Word	R/W
0A93H-0A95H	2707-2709	Data and the time table of the 2nd holiday		Word	R/W
0A96H-0A98H	2710-2712	Data and the time table of the 3rd holiday		Word	R/W
0A99H-0A9BH	2713-2715	Data and the time table of the 4th holiday		Word	R/W
0A9CH-0A9EH	2716-2718	Data and the time table of the 5th holiday		Word	R/W
0A9FH-0AA1H	2719-2721	Data and the time table of the 6th holiday		Word	R/W
0AA2H-0AA4H	2722-2724	Data and the time table of the 7th holiday		Word	R/W
0AA5H-0AA7H	2725-2727	Data and the time table of the 8th holiday		Word	R/W
0AA8H-0AAAH	2728-2730	Data and the time table of the 9th holiday		Word	R/W
0AABH-0AADH	2731-2733	Data and the time table of the 10th holiday		Word	R/W
0AAEH-0AB0H	2734-2736	Data and the time table of the 11th holiday		Word	R/W
0AB1H-0AB3H	2737-2739	Data and the time table of the 12th holiday		Word	R/W
0AB4H-0AB6H	2740-2742	Data and the time table of the 13th holiday		Word	R/W
0AB7H-0AB9H	2743-2745	Data and the time table of the 14th holiday		Word	R/W
0ABAH-0ABCH	2746-2748	Data and the time table of the 15th holiday		Word	R/W
0ABDH-0ABFH	2749-2751	Data and the time table of the 16th holiday		Word	R/W
0AC0H-0AC2H	2752-2754	Data and the time table of the 17th holiday		Word	R/W
0AC3H-0AC5H	2755-2757	Data and the time table of the 18th holiday		Word	R/W
0AC6H-0AC8H	2758-2760	Data and the time table of the 19th holiday		Word	R/W
0AC9H-0ACBH	2761-2763	Data and the time table of the 20th holiday		Word	R/W

0ACCH-0ACEH	2764-2766	Data and the time table of the 21st holiday		Word	R/W
0ACFH-0AD1H	2767-2769	Data and the time table of the 22nd holiday		Word	R/W
0AD2H-0AD4H	2770-2772	Data and the time table of the 23th holiday		Word	R/W
0AD5H-0AD7H	2773-2775	Data and the time table of the 24th holiday		Word	R/W
0AD8H-0ADAH	2776-2778	Data and the time table of the 25th holiday		Word	R/W
0ADBH-0ADDH	2779-2781	Data and the time table of the 26th holiday		Word	R/W
0ADEH-0AE0H	2782-2784	Data and the time table of the 27th holiday		Word	R/W
0AE1H-0AE3H	2785-2787	Data and the time table of the 28th holiday		Word	R/W
0AE4H-0AE6H	2788-2790	Data and the time table of the 29th holiday		Word	R/W
0AE7H-0AE9H	2791-2793	Data and the time table of the 30th holiday		Word	R/W
0AEAH	2794-2796	Holiday setting enable		Word	R/W
0AEBH	2797-2799	Start year holiday setting		Word	R/W
0AECH	2800-2802	End year holiday setting		Word	R/W

Extend IO Setting

DO Parameter Setting: 03H Read; 10H Write					
Address (Hex)	**Address (Dec)**	**Parameter**	**Range**	**Type**	**Type of access**
3C0H	960	DO1 function choice	0:pulse output 1:alarm output	Word	R/W
3C1H	961	DO2 function choice	0:pulse output 1:alarm output	Word	R/W
3C2H	962	Pulse constant	800~60000	Word	R/W
3C3H	963	High level delay	1~50(20ms)	Word	R/W
3C4H	964	DO1 output energy choice	0:none; 1:Import energy Ep_imp; 2:Export energy Ep_exp; 3:Import reactive energy Eq_imp; 4:Export reactive energy Eq_exp	Word	R/W
3C5H	965	DO2 output energy choice	0:none; 1:Import energy Ep_imp; 2:Export energy Ep_exp; 3:Import reactive energy Eq_imp; 4:Export reactive energy Eq_exp	Word	R/W
3C6H	966	Alarm delay	0~255(300ms)	Word	R/W
3C7H	967	DO1 alarm choice	0~34	Word	R/W
3C8H	968	DO1 alarm condition	0:<; 1:>;	Word	R/W
3C9H	969	DO1 alarm limit	-32767~32768	Word	R/W
3CAH	970	DO2 alarm choice	0~34	Word	R/W
3CBH	971	DO2 alarm condition	0:<; 1:>;	Word	R/W

3CCH	972	DO2 alarm limit	-32767~32768	Word	R/W
3CDH	973	Extended communication Baud rate	1200-57600	Word	R/W
3CEH	974	Extended communication Parity check	0:Even; 1:Odd; 2:None2; 3:None1;	Word	R/W
3CFH	975	Alarm back light blink setting	0: enable 1:disable	Word	R/W
DI Parameter setting: 03H Read;10H Write					
3D0H	976	Bit0/Bit1/Bit2/Bit3: 0 SOE state; Bit0/Bit1/Bit2/Bit3:1 pulse counter state	0~15	Word	R/W
3D1H	977	High byte of pulse accumulation constant	1-65535	Word	R/W
3D2H	978	DI counter clear	0x0A:clear Other:None	Word	R/W

DI counter parameter:03H Read; 10H Write				
Address(Hex)	Address(Dec)	Parameter	Range	Type
03A0H-03A1H	928-929	DI1 counter number	0-4294967295	Dword
03A2H-03A3H	930-931	DI2 counter number	0-4294967295	Dword
03A4H-03A5H	932-933	DI3 counter number	0-4294967295	Dword
03A6H-03A7H	934-935	DI4 counter number	0-4294967295	Dword

SOE event parameter address area

SOE event record area: 03H Read				
Address(Hex)	**Address(Dec)**	**Parameter**	**Range**	**Type**
0300H	768	Year of 1st SOE event(High byte)	00-99	Word
		Month of 1st SOE event(Low byte)	1-12	
0301H	769	Day of 1st SOE event(High byte)	1-31	Word
		Hour of 1st SOE event(Low byte)	0-23	
0302H	770	Minute of 1st SOE event(High byte)	0-59	Word
		Second of 1st SOE event(Low byte)	0-59	Word
0303H	771	Millisecond of 1st SOE event	0-999	Word
0304H	772	1st SOE event state	0-15	Word
0305H-0309H	773-777	2nd SOE event	same	Word
030AH-030EH	778-782	3rd SOE event	same	Word
030FH-0313H	783-787	4th SOE event	same	Word
0314H-0318H	788-792	5th SOE event	same	Word
0319H-031DH	793-797	6th SOE event	same	Word
031EH-0322H	798-802	7th SOE event	same	Word
0323H-0327H	803-807	8th SOE event	same	Word
0328H-032CH	808-812	9th SOE event	same	Word

032DH-0331H	813-817	10th SOE event	same	Word
0332H-0336H	818-822	11th SOE event	same	Word
0337H-033BH	823-827	12th SOE event	same	Word
033CH-0340H	828-832	13th SOE event	same	Word
0341H-0345H	833-837	14th SOE event	same	Word
0346H-034AH	838-842	15th SOE event	same	Word
034BH-034FH	843-847	16th SOE event	same	Word
0350H-0354H	848-852	17th SOE event	same	Word
0355H-0359H	853-857	18th SOE event	same	Word
035AH-035EH	858-862	19th SOE event	same	Word
035FH-0363H	863-867	20th SOE event	same	Word