rev 1.01

Accura 5500 Modbus Map [ModbusRTU & ModbusTCP]

Overview section

Address	Section	Descriptions
System information section		
40001 ~ 40025	System Information	Product model, Serial number, Hardware version, Firmware version, Map version, Calibration info
40026 ~ 40050	Invalid	
Configuration section		
40051 ~ 40140	General Config[Sensing]	Factory[Owner, Time sync, Current Date], Sensing[Wring mode, Norminal value, PT/CT ratio, Polarity, Pickup]
40141 ~ 40230	Communication	Comm ID, Protocol, SNMP, DNS, SNTP, MAC address, IP address, Subnet mask, Gateway
40231 ~ 40260	Display	Symbol, Sign conversion, Phase label, Language, Update time, Backlight
40261 ~ 40290	IEC61000-4-30	Dip / Swel l / Interruption / inrush threshold & hysteresis, Demand inerval, TDD, Harmonics reference
40291 ~ 40340	EN50160	Reserved[Threshold, Hysteresis, Evaluation period]
40341 ~ 40380	Event / Waveform Record	Record cycle, Record enable, Curve type, Record length, Record type
40381 ~ 40430	Digital Input / Output	Delay time, Seal in time, Dwell time, Relay type
40431 ~ 40450	CB & DO On/Off Control	CB control, DO control
40451 ~ 40840	Trend	Reserved[Recod type, Parameter, Data format, Interval, Depth]
40841 ~ 40850	Event Reset	Event record clear, Count clear
40851 ~ 40880	Max/Min Reset	Frequency / Voltage / Current / Power Demand Max/Min clear
40881 ~ 40888	Demand Reset	Insranraneous Demand clear
40889 ~ 40890	Predicted Demand reset	Predicted Demand reset
40891 ~ 40893	Energy Reset	Active power / Reactive power / Apparent power clear
40894 ~ 40900	ETC. Reset	Max/Min Onetime All clear
40901 ~ 40940	Energy Set	Set energy
40941 ~ 41000	Invalid	
Basic measurement section		
41001 ~ 41130	Basic measurement	Meausrement summary[Energy, Voltage, Current, Power, THD, Demand]
41131 ~ 42000	Invalid	
Detail measurement section		
42001 ~ 42022	Frequency	Frequency, Frequency rate, Max, Min, Update time, Reset time
42023 ~ 42114	Voltage	Voltage[Va, Vb, Vc, Vg], Voltage average, Max, Min, Update time, Reset time
42115 ~ 42166	Current	Current[Ia, Ib, Ic, In, Iz], Current average, Max, Min, Update time, Reset time
42167 ~ 42208	Active Power	Active power[kWa, kWb, kWc], Total power, Max, Min, Update time, Reset time
42209 ~ 42260	Reactive Power	Reactive power[kVARa, kVARb, kVARc], Total power, Max, Min, Update time, Reset time
42261 ~ 42312	Apparent Power	Apparent power[kVAa, kVAb, kVAc], Total power, Max, Min, Update time, Reset time
42313 ~ 42364	Power Factor	PF[PFa,PFb, PFc], Total PF, Max, Min, Update time, Reset time
43365 ~ 42406	Fundamental Active Power	Reserved[Fundamental Active power[kWa, kWb, kWc], Total power, Max, Min, Update time, Reset time]
42407 ~ 42458	Fundamental Reactive Power	Reserved[Fundamental Reactive power[kVARa, kVARb, kVARc], Total power, Max, Min, Update time, Reset time]
42459 ~ 42510	Fundamental Apparent Power	Reserved[Fundamental Apparent power[kVAa, kVAb, kVAc], Total power, Max, Min, Update time, Reset time]
42511 ~ 42562	Fundamental Power Factor	Reserved[Fundamental PF[PFa,PFb, PFc], Total PF, Max, Min, Update time, Reset time]
42563 ~ 42596	Energy of Active Power	Energy[kWha, kWhb, kWhc], Total energy, Received, Delivered, Sum, Net, Reset time
42597 ~ 42630	Energy of Reactive Power	Energy[kVARha, kVARhb, kVARhc], Total energy, Received, Delivered, Sum, Net, Reset time
42631 ~ 42640	Energy of Apparent Power	Energy[kVAha, kVAhb, kVahc], Total energy, Reset time
42641 ~ 42684	Active Power Demand	Demand[kWa, kWb, kWc], Total demand, Max, Min, Update time, Reset time
42685 ~ 42738	Reactive Power Demand	Demand[kVARa, kVARb, kVARc], Total demand, Max, Min, Update time, Reset time
42739 ~ 42792	Apparent Power Demand	Demand[kVAa, kVAb, kVAc], Total demand, Max, Min, Update time, Reset time
42793 ~ 42836	Current Demand	Demand[Ia, Ib, Icc], Average demand, Max, Min, Update time, Reset time
42837 ~ 42880	Active Power Thermal Demand	Reserved[Thermal Demand[kWa, kWb, kWc], Total demand, Max, Min, Update time, Reset time]
42881 ~ 42934	Reactive Power Thermal Demand	Reserved[Thermal Demand[kVARa, kVARb, kVARc], Total demand, Max, Min, Update time, Reset time]
42935 ~ 42988	Apparent Power Thermal Demand	Reserved[Thermal Demand[kVAa, kVAb, kVAc], Total demand, Max, Min, Update time, Reset time]
42989 ~ 43032	Current Thermal Demand	Reserved[Thermal Demand[Ia, Ib, Icc], Average demand, Max, Min, Update time, Reset time]
43033 ~ 43080	Unbalance of Voltage	Reserved[Positive sequence, Negative sequence, Zero sequence, NEMA unbalance, IEC61000-4-30 unbalance, Max, Min]
43081 ~ 43128	Unbalance of Current	Reserved[Positive sequence, Negative sequence, Zero sequence, NEMA unbalance, IEC61000-4-30 unbalance, Max, Min]
43129 ~ 43160	Mains Signaling	Reserved[Magnitude, Max, Min, Update time, Reset time]
43161 ~ 43192	Overdeviation of Voltage	Reserved[Overdeviation[Va, Vb, Vc], Max, Min, Update time, Reset time]
43193 ~ 43224	Underdeviation of Voltage	Reserved[Underdeviation[Va, Vb, Vc], Max, Min, Update time, Reset time]
43225 ~ 43256	Crest Factor Voltage	Reserved[Crest Factor[Va, Vb, Vc], Max, Min, Update time, Reset time]
43257 ~ 43288	Crest Factor Current	Reserved[Crest Factor[Ia, Ib, Ic], Max, Min, Update time, Reset time]
43289 ~ 43320	K-Factor of Current	Reserved[K-Factor[Ia, Ib, Ic], Max, Min, Update time, Reset time]

43321 ~ 43376	Flicker	Short-term, Long-term, Long-term sliding[a, b, c], Max, Min, Update time, Reset time
43377 ~ 43420	THD of Voltage	THD[Va, Vb, Vc], Even, Odd, Max, Min, Update time, Reset time
43421 ~ 43470	THD of Current	THD[Ia, Ib, Ic], Even, Odd, Max, Min, Update time, Reset time
43471 ~ 43534	Vector Diagram	Vector Diagram[Va, Vb, Vc, Ia, Ib, Ic], x, y, Magnitude, angle
43535 ~ 43665	Harmonics of Voltage / Current	Update request, Select channel, Harmonics data
43666 ~ 43796	Interharmonics of Voltage / Current	Update request, Select channel, Interharmonics data
43797 ~ 45335	FFT of Voltage / Current	Update request, Select channel, FFT data
45336 ~ 45850	Insranraneous Waveform	Update request, Select channel, Waveform data
45851 ~ 46170	Event Record	Reserved[Full flag, Last number, Reset time, Select number, Event Cause, Event time]
46171 46252	Predicted Demand	Predicted Demand, Reset time
46253 ~ 47000	Invalid	
Power Quality section		
47001 ~ 47010	Count	CB Trip count, Dip / Swell / Interruption / Transient / Inrush count
47011 ~ 49000	Invalid	
Short Form section		
49001 ~ 49098	Short-formed data block	Collection of measurements and controls
49099 ~ 49999	Invalid	

Value Table

Value	Description
0	Default
1	No Decimals
2	1.
3	1.X
4	1.XX
5	1.XXX
6	12.
7	12.X
8	12.XX
9	12.XXX
10	123.
11	123.X
12	123.XX
13	123.XXX
14	1234.
15	1234.X
16	1234.XX
17	1234.XXX
18	12345.
19	12345.X
20	12345.XX
21	12345.XXX
22	123456.
23	123456.X
24	123456.XX
25	123456.XXX
26	1234567.
27	1234567.X
28	1234567.XX
29	1234567.XXX
30	12345678.
31	12345678.X
32	12345678.XX
33	12345678.XXX
34	123456789.
35	123456789.X
36	123456789.XX
37	123456789.XXX

Value	Description
0	2param
1	3param
2	4param
3	8param
4	10param
5	20param
6	3param with Timestamp
7	Hamonics V1
8	Harmonics V2
9	Harmonics V3
10	Harmonics V4
11	Harmonics I1
12	Harmonics I2
13	Harmonics I3
14	Harmonics I4
15	Harmonics I5
16	Vector Diagram
17	Event Log
18	Name Plate
19	All Segments
20	4Param TrendBar Graph
21	DataLog Trend - Log Source 1 to 4

Value	Description
0	1P2W[단상2선]
1	1P3W[단상3선]
2	3P3W, Open delta[삼상3선]
3	3P4W[삼상4선]

Value	Description
0	1024*2
1	512*4
2	256*7
3	128*14
4	64*14

Value Table 1

EvType (u16)	EvAttr1(u8)	EvAttr2 (u8)
0: None		
1: SelfDiagnosis	1: PT fail	0x01: Phase A
		0x02: Phase B
		0x04: Phase C
	2: CBF(Circuit Breaker Failure)	0x01: Phase A
		0x02: Phase B
		0x04: Phase C
	3: TCS(Trip Circuit Supervision)	0x01: Phase A
		0x02: Phase B
		0x04: Phase C
	4: TRS(Trip Relay Supervision)	0x01: Phase A
		0x02: Phase B
		0x04: Phase C
	5: Memory	1: Flash
		2: SDRAM
	6: Power	
2: DI change	1: DI0 (CB Status)	1: On
		2: Off
	2: DI1	1: On
		2: Off
	...	...
	...	...
	16: DI15	1: On
		2: Off
3: Dip Start		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
4: Dip End		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
5: Swell Start		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
6: Swell End		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
7: Interruption Start		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
8: Interruption End		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
9: Inrush current		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
10: Peak Transient		0x01: Phase A
		0x02: Phase B
		0x04: Phase C
11: Dev Transient		0x01: Phase A
		0x02: Phase B
		0x04: Phase C

5	64*28
6	32*12
7	32*26
8	32*40
9	32*54
10	16*22
11	16*48
12	16*72
13	16*96

ShortForm section

Address	Attribute	Measurement	Format	Default	Descriptions
Short-formed data block					
49001~49002	R	Voltage a	FLOAT32		
49003~49004	R	Voltage b	FLOAT32		
49005~49006	R	Voltage c	FLOAT32		
49007~49008	R	Voltage ab	FLOAT32		
49009~49010	R	Voltage bc	FLOAT32		
49011~49012	R	Voltage ca	FLOAT32		
49013~49014	R	Current a	FLOAT32		
49015~49016	R	Current b	FLOAT32		
49017~49018	R	Current c	FLOAT32		
49019~49020	R	Current g	FLOAT32		
49021~49022	R	kW a	FLOAT32		
49023~49024	R	kW b	FLOAT32		
49025~49026	R	kW c	FLOAT32		
49027~49028	R	Total kW	FLOAT32		
49029~49030	R	kVAR a	FLOAT32		
49031~49032	R	kVAR b	FLOAT32		
49033~49034	R	kVAR c	FLOAT32		
49035~49036	R	Total kVAR	FLOAT32		
49037~49038	R	kVA a	FLOAT32		
49039~49040	R	kVA b	FLOAT32		
49041~49042	R	kVA c	FLOAT32		
49043~49044	R	Total kVA	FLOAT32		
49045	R	PF a	S3 INT16		
49046	R	PF b	S3 INT16		
49047	R	PF c	S3 INT16		
49048	R	Total PF	S3 INT16		
49049	R	Frequency	S2 UINT16		
49050~49051	R	kWh	INT32		
49052~49053	R	kVARh	INT32		
49054	R	Voltage a THD	S1 UINT16		
49055	R	Voltage b THD	S1 UINT16		
49056	R	Voltage c THD	S1 UINT16		
49057	R	Current a THD	S1 UINT16		
49058	R	Current b THD	S1 UINT16		
49059	R	Current c THD	S1 UINT16		
49060	R	Digital Input channels Bit 0 Channel 1 Bit 1 Channel 2 Bit 2 Channel 3 Bit 3 Channel 4 Bit 4 Channel 5 Bit 5 Channel 6 Bit 6 Channel 7 Bit 7 Channel 8 Bit 8 Channel 9 Bit 9 Channel 10 Bit 10 Channel 11 Bit 11 Channel 12 Bit 12 Channel 13 Bit 13 Channel 14 Bit 14 Channel 15 Bit 15 CB status	UINT16		Bit '1'= On Bit '0'= Off

49061	R	Digital Output Status Bit 0 DO 1 status Bit 1 DO 2 status Bit 2 DO 3 status Bit 3 DO 4 status Bit 4 DO 5 status Bit 5 DO 6 status Bit 6 DO 7 status Bit 7 DO 8 status Bit 8 DO 9 status Bit 9 DO 10 status Bit 10 DO 11 status Bit 11 Reserved Bit 12 Reserved Bit 13 Reserved Bit 14 Reserved Bit 15 Reserved	UINT16		Bit '1'= On Bit '0'= Off
49062	W	Digital Output channel 1			0x0001 = On 0x0000 = Off
49063	W	Digital Output channel 2			0x0001 = On 0x0000 = Off
49064	W	Digital Output channel 3			0x0001 = On 0x0000 = Off
49065	W	Digital Output channel 4			0x0001 = On 0x0000 = Off
49066	W	Digital Output channel 5			0x0001 = On 0x0000 = Off
49067	W	Digital Output channel 6			0x0001 = On 0x0000 = Off
49068	W	Digital Output channel 7			0x0001 = On 0x0000 = Off
49069	W	Digital Output channel 8			0x0001 = On 0x0000 = Off
49070	W	Digital Output channel 9			0x0001 = On 0x0000 = Off
49071	W	Digital Output channel 10			0x0001 = On 0x0000 = Off
49072	W	CB On(Close) Command			0x0001 = CB On
49073	W	CB Off(Open) Command			0x0001 = CB Off
49074	W	kWh/kVARh Reset			0x0001 = Reset
49075	R	Reserved[Fault Reset]	UINT16		
49076	R	Local/Remote Mode Flag			0x0001 = Local 0x0000 = Remote
49077~49080	R	Reserved	UINT16		
49081	R	Digital Input channels (Extended) Bit 0 Channel 16			Bit '1'= On Bit '0'= Off
49082~49098	R	Reserved	UINT16		
49099~49500		Invalid	UINT16		

Basic Measurement section

Address	Attribute	Measurement	Format	Range†	Descriptions
41001	R	Wiring mode[결선모드]	UINT16	0 ~ 3	0 = 1P2W 1 = 1P3W 2 = 3P3O 3 = 3P4W
41002	R	Digital Input status	UINT16		L8'bxxxx xxxx (0:Off/1:On) {b1:CB-In, b2:DI1, b3:DI2, b4:DI3, b5:DI4, b6:DI5, b7:DI6, b8:DI7} H8'bxxxx xxxx (0:Off/1:On) b1:DI8, b2:DI9, b3:DI10, b4:DI11, b5:DI12, b6:DI13, b7: DI14, b8: DI15}
41003	R	Digital Output status	UINT16		L8'bxxxx xxxx (0:Off/1:On) {b1:DO1, b2:DO2, b3:DO3, b4:DO4, b5:DO5, b6:DO6, b7:DO7, b8:DO8} H3'bxxx (0:Off/1:On) b1:DO9, b2:DO10, b3:DO11}
41004	R	Remote / Local mode status	UINT16		0 = Remote / 1 = Local
41005	R	Full flag of Event-Group record	UINT16		0 = Not full / 1 = Full
41006	R	Last number of Event-Group record	UINT16	0 ~ 1000	0 = Event-Group record None
41007~41010	R	Reserved	UINT16		(Phase Fault status)
Basic measurement					
41011~41012	R	kWh	INT32		Depend on the 40255
41013~41014	R	kVARh	INT32		Depend on the 40255
41015~41016	R	kVAh	INT32		EStot
41017~41018	R	Frequency	FLOAT32		Freq
41019~41020	R	Frequency Rate	FLOAT32		FreqRate
41021~41022	R	Voltage a	FLOAT32		Van
41023~41024	R	Voltage b	FLOAT32		Vbn
41025~41026	R	Voltage c	FLOAT32		Vcn
41027~41028	R	Voltage average	FLOAT32		VlnAvg
41029~41030	R	Voltage g	FLOAT32		Vgn
41031~41032	R	Line Voltage ab	FLOAT32		Vab
41033~41034	R	Line Voltage bc	FLOAT32		Vbc
41035~41036	R	Line Voltage ca	FLOAT32		Vca
41037~41038	R	Line Voltage average	FLOAT32		VllAvg
41039~41040	R	Current a	FLOAT32		Ia
41041~41042	R	Current b	FLOAT32		Ib
41043~41044	R	Current c	FLOAT32		Ic
41045~41046	R	Current average	FLOAT32		Iavg
41047~41048	R	Current n	FLOAT32		In
41049~41050	R	kW a	FLOAT32		Pa
41051~41052	R	kW b	FLOAT32		Pb
41053~41054	R	kW c	FLOAT32		Pc
41055~41056	R	Total kW	FLOAT32		Ptot
41057~41058	R	kVAR a	FLOAT32		Qa
41059~41060	R	kVAR b	FLOAT32		Qb
41061~41062	R	kVAR c	FLOAT32		Qc
41063~41064	R	Total kVAR	FLOAT32		Depend on the 40256
41065~41066	R	kVA a	FLOAT32		Sa
41067~41068	R	kVA b	FLOAT32		Sb
41069~41070	R	kVA c	FLOAT32		Sc
41071~41072	R	Total kVA	FLOAT32		Depend on the 40256
41073~41074	R	PF a	FLOAT32		PFa
41075~41076	R	PF b	FLOAT32		PFb
41077~41078	R	PF c	FLOAT32		PFc
41079~41080	R	Total PF	FLOAT32		Depend on the 40256
41081~41082	R	Voltage a THD	FLOAT32		THDva
41083~41084	R	Voltage b THD	FLOAT32		THDvb
41085~41086	R	Voltage c THD	FLOAT32		THDvc
41087~41088	R	Current a THD	FLOAT32		THDia
41089~41090	R	Current b THD	FLOAT32		THDib

41091~41092	R	Current c THD	FLOAT32		THDic
41093~41094	R	kW a demand	FLOAT32		Depend on the 40257
41095~41096	R	kW b demand	FLOAT32		Depend on the 40257
41097~41098	R	kW c demand	FLOAT32		Depend on the 40257
41099~41100	R	Total kW demand	FLOAT32		Depend on the 40257
41101~41102	R	kW a demand max after reset	FLOAT32		Depend on the 40257
41103~41104	R	kW b demand max after reset	FLOAT32		Depend on the 40257
41105~41106	R	kW c demand max after reset	FLOAT32		Depend on the 40257
41107~41108	R	Total kW demand max after reset	FLOAT32		Depend on the 40257
41109~41110	R	Current a demand	FLOAT32		Depend on the 40257
41111~41112	R	Current b demand	FLOAT32		Depend on the 40257
41113~41114	R	Current c demand	FLOAT32		Depend on the 40257
41115~41116	R	Current average demand	FLOAT32		Depend on the 40257
41117~41118	R	Current a demand max after reset	FLOAT32		Depend on the 40257
41119~41120	R	Current b demand max after reset	FLOAT32		Depend on the 40257
41121~41122	R	Current c demand max after reset	FLOAT32		Depend on the 40257
41123~41124	R	Current average demand max after reset	FLOAT32		Depend on the 40257
41125~41130	R	Reserved	UINT16		
41131~-42000		Invalid	UINT16		

Detail Measurement section

Address	Attribute	Measurement	Format	Range†	Descriptions
Frequency					
42001~42002	R	Frequency	FLOAT32		Freq
42003~42004	R	Frequency Rate	FLOAT32		FreqRate
42005~42006	R	Frequency max after reset	FLOAT32		FreqMx
42007~42008	R	Frequency Rate max after reset	FLOAT32		FreqRateMx
42009~42010	R	Frequency min after reset	FLOAT32		FreqMn
42011~42012	R	Frequency Rate min after reset	FLOAT32		FreqRateMn
42013~42014	R	Frequency max time after reset	UINT32	(unit : 1 sec)	tFreqMx
42015~42016	R	Frequency Rate max time after reset	UINT32	(unit : 1 sec)	tFreqRateMx
42017~42018	R	Frequency min time after reset	UINT32	(unit : 1 sec)	tFreqMn
42019~42020	R	Frequency Rate min time after reset	UINT32	(unit : 1 sec)	tFreqRateMn
42021~42022	R	Frequency max/min reset time	UINT32	(unit : 1 sec)	tFreqRst
Voltage					
42023~42024	R	Voltage a	FLOAT32		Van
42025~42026	R	Voltage b	FLOAT32		Vbn
42027~42028	R	Voltage c	FLOAT32		Vcn
42029~42030	R	Voltage average	FLOAT32		VlnAvg
42031~42032	R	Voltage g	FLOAT32		Vgn
42033~42034	R	Line Voltage ab	FLOAT32		Vab
42035~42036	R	Line Voltage bc	FLOAT32		Vbc
42037~42038	R	Line Voltage ca	FLOAT32		Vca
42039~42040	R	Line Voltage average	FLOAT32		VllAvg
42041~42042	R	Voltage a max after reset	FLOAT32		VanMx
42043~42044	R	Voltage b max after reset	FLOAT32		VbnMx
42045~42046	R	Voltage c max after reset	FLOAT32		VcnMx
42047~42048	R	Voltage average max after reset	FLOAT32		VlnAvgMx
42049~42050	R	Voltage g max after reset	FLOAT32		VgnMx
42051~42052	R	Line Voltage ab max after reset	FLOAT32		VabMx
42053~42054	R	Line Voltage bc max after reset	FLOAT32		VbcMx
42055~42056	R	Line Voltage ca max after reset	FLOAT32		VcaMx
42057~42058	R	Line Voltage average max after reset	FLOAT32		VllAvgMx
42059~42060	R	Voltage a min after reset	FLOAT32		VanMn
42061~42062	R	Voltage b min after reset	FLOAT32		VbnMn
42063~42064	R	Voltage c min after reset	FLOAT32		VcnMn

42065~42066	R	Voltage average min after reset	FLOAT32		VlnAvgMn
42067~42068	R	Voltage g min after reset	FLOAT32		VgnMn
42069~42070	R	Line Voltage ab min after reset	FLOAT32		VabMn
42071~42072	R	Line Voltage bc min after reset	FLOAT32		VbcMn
42073~42074	R	Line Voltage ca min after reset	FLOAT32		VcaMn
42075~42076	R	Line Voltage average min after reset	FLOAT32		VllAvgMn
42077~42078	R	Voltage a max time after reset	UINT32	(unit : 1 sec)	tVanMx
42079~42080	R	Voltage b max time after reset	UINT32	(unit : 1 sec)	tVbnMx
42081~42082	R	Voltage c max time after reset	UINT32	(unit : 1 sec)	tVcnMx
42083~42084	R	Voltage average max time after reset	UINT32	(unit : 1 sec)	tVlnAvgMx
42085~42086	R	Voltage g max time after reset	UINT32	(unit : 1 sec)	tVgnMx
42087~42088	R	Line Voltage ab max time after reset	UINT32	(unit : 1 sec)	tVabMx
42089~42090	R	Line Voltage bc max time after reset	UINT32	(unit : 1 sec)	tVbcMx
42091~42092	R	Line Voltage ca max time after reset	UINT32	(unit : 1 sec)	tVcaMx
42093~42094	R	Line Voltage average max time after reset	UINT32	(unit : 1 sec)	tVllAvgMx
42095~42096	R	Voltage a min time after reset	UINT32	(unit : 1 sec)	tVanMn
42097~42098	R	Voltage b min time after reset	UINT32	(unit : 1 sec)	tVbnMn
42099~42100	R	Voltage c min time after reset	UINT32	(unit : 1 sec)	tVcnMn
42101~42102	R	Voltage average min time after reset	UINT32	(unit : 1 sec)	tVlnAvgMn
42103~42104	R	Voltage g min time after reset	UINT32	(unit : 1 sec)	tVgnMn
42105~42106	R	Line Voltage ab min time after reset	UINT32	(unit : 1 sec)	tVabMn
42107~42108	R	Line Voltage bc min time after reset	UINT32	(unit : 1 sec)	tVbcMn
42109~42110	R	Line Voltage ca min time after reset	UINT32	(unit : 1 sec)	tVcaMn
42111~42112	R	Line Voltage average min time after reset	UINT32	(unit : 1 sec)	tVllAvgMn
42113~42114	R	Voltage max/min reset time	UINT32	(unit : 1 sec)	tVolRst
Current					
42115~42116	R	Current a	FLOAT32		Ia
42117~42118	R	Current b	FLOAT32		Ib
42119~42120	R	Current c	FLOAT32		Ic
42121~42122	R	Current average	FLOAT32		Iavg
42123~42124	R	Current n	FLOAT32		In
42125~42126	R	Current a max after reset	FLOAT32		IaMx
42127~42128	R	Current b max after reset	FLOAT32		IbMx
42129~42130	R	Current c max after reset	FLOAT32		IcMx
42131~42132	R	Current average max after reset	FLOAT32		IavgMx
42133~42134	R	Current n max after reset	FLOAT32		InMx
42135~42136	R	Current a min after reset	FLOAT32		IaMn
42137~42138	R	Current b min after reset	FLOAT32		IbMn
42139~42140	R	Current c min after reset	FLOAT32		IcMn
42141~42142	R	Current average min after reset	FLOAT32		IavgMn
42143~42144	R	Current n min after reset	FLOAT32		InMn
42145~42146	R	Current a max time after reset	UINT32	(unit : 1 sec)	tIaMx
42147~42148	R	Current b max time after reset	UINT32	(unit : 1 sec)	tIbMx
42149~42150	R	Current c max time after reset	UINT32	(unit : 1 sec)	tIcMx
42151~42152	R	Current average max time after reset	UINT32	(unit : 1 sec)	tIavgMx
42153~42154	R	Current n max time after reset	UINT32	(unit : 1 sec)	tInMx
42155~42156	R	Current a min time after reset	UINT32	(unit : 1 sec)	tIaMn
42157~42158	R	Current b min time after reset	UINT32	(unit : 1 sec)	tIbMn
42159~42160	R	Current c min time after reset	UINT32	(unit : 1 sec)	tIcMn
42161~42162	R	Current average min time after reset	UINT32	(unit : 1 sec)	tIavgMn
42163~42164	R	Current n min time after reset	UINT32	(unit : 1 sec)	tInMn
42165~42166	R	Current max/min reset time	UINT32	(unit : 1 sec)	tCurRst
Active Power					
42167~42168	R	kW a	FLOAT32		Pa
42169~42170	R	kW b	FLOAT32		Pb
42171~42172	R	kW c	FLOAT32		Pc
42173~42174	R	Total kW	FLOAT32		Ptot
42175~42176	R	kW a max after reset	FLOAT32		PaMx
42177~42178	R	kW b max after reset	FLOAT32		PbMx

42179~42180	R	kW c max after reset	FLOAT32		PcMx
42181~42182	R	Total kW max after reset	FLOAT32		PtotMx
42183~42184	R	kW a min after reset	FLOAT32		PaMn
42185~42186	R	kW b min after reset	FLOAT32		PbMn
42187~42188	R	kW c min after reset	FLOAT32		PcMn
42189~42190	R	Total kW min after reset	FLOAT32		PtotMn
42191~42192	R	kW a max time after reset	UINT32	(unit : 1 sec)	tPaMx
42193~42194	R	kW b max time after reset	UINT32	(unit : 1 sec)	tPbMx
42195~42196	R	kW c max time after reset	UINT32	(unit : 1 sec)	tPcMx
42197~42198	R	Total kW max time after reset	UINT32	(unit : 1 sec)	tPtotMx
42199~42200	R	kW a min time after reset	UINT32	(unit : 1 sec)	tPaMn
42201~42202	R	kW b min time after reset	UINT32	(unit : 1 sec)	tPbMn
42203~42204	R	kW c min time after reset	UINT32	(unit : 1 sec)	tPcMn
42205~42206	R	Total kW min time after reset	UINT32	(unit : 1 sec)	tPtotMn
42207~42208	R	kW max/min reset time	UINT32	(unit : 1 sec)	tPrst
Reactive Power					
42209~42210	R	kVAR a	FLOAT32		Qa
42211~42212	R	kVAR b	FLOAT32		Qb
42213~42214	R	kVAR c	FLOAT32		Qc
42215~42216	R	Vector sum(total) kVAR	FLOAT32		QtotVec
42217~42218	R	Arithmetic sum(total) kVAR	FLOAT32		QtotAth
42219~42220	R	kVAR a max after reset	FLOAT32		QaMx
42221~42222	R	kVAR b max after reset	FLOAT32		QbMx
42223~42224	R	kVAR c max after reset	FLOAT32		QcMx
42225~42226	R	Vector sum(total) kVAR max after reset	FLOAT32		QtotVecMx
42227~42228	R	Arithmetic sum(total) kVAR max after reset	FLOAT32		QtotAthMx
42229~42230	R	kVAR a min after reset	FLOAT32		QaMn
42231~42232	R	kVAR b min after reset	FLOAT32		QbMn
42233~42234	R	kVAR c min after reset	FLOAT32		QcMn
42235~42236	R	Vector sum(total) kVAR min after reset	FLOAT32		QtotVecMn
42237~42238	R	Arithmetic sum(total) kVAR min after reset	FLOAT32		QtotAthMn
42239~42240	R	kVAR a max time after reset	UINT32	(unit : 1 sec)	tQaMx
42241~42242	R	kVAR b max time after reset	UINT32	(unit : 1 sec)	tQbMx
42243~42244	R	kVAR c max time after reset	UINT32	(unit : 1 sec)	tQcMx
42245~42246	R	Vector sum(total) kVAR max time after reset	UINT32	(unit : 1 sec)	tQtotVecMx
42247~42248	R	Arithmetic sum(total) kVAR max time after reset	UINT32	(unit : 1 sec)	tQtotAthMx
42249~42250	R	kVAR a min time after reset	UINT32	(unit : 1 sec)	tQaMn
42251~42252	R	kVAR b min time after reset	UINT32	(unit : 1 sec)	tQbMn
42253~42254	R	kVAR c min time after reset	UINT32	(unit : 1 sec)	tQcMn
42255~42256	R	Vector sum(total) kVAR min time after reset	UINT32	(unit : 1 sec)	tQtotVecMn
42257~42258	R	Arithmetic sum(total) kVAR min time after reset	UINT32	(unit : 1 sec)	tQtotAthMn
42259~42260	R	kVAR max/min reset time	UINT32	(unit : 1 sec)	tQrst
Apparent Power					
42261~42262	R	kVA a	FLOAT32		Sa
42263~42264	R	kVA b	FLOAT32		Sb
42265~42266	R	kVA c	FLOAT32		Sc
42267~42268	R	Vector sum(total) kVA	FLOAT32		StotVec
42269~42270	R	Arithmetic sum(total) kVA	FLOAT32		StotAth
42271~42272	R	kVA a max after reset	FLOAT32		SaMx
42273~42274	R	kVA b max after reset	FLOAT32		SbMx
42275~42276	R	kVA c max after reset	FLOAT32		ScMx
42277~42278	R	Vector sum(total) kVA max after reset	FLOAT32		StotVecMx
42279~42280	R	Arithmetic sum(total) kVA max after reset	FLOAT32		StotAthMx
42281~42282	R	kVA a min after reset	FLOAT32		SaMn
42283~42284	R	kVA b min after reset	FLOAT32		SbMn
42285~42286	R	kVA c min after reset	FLOAT32		ScMn
42287~42288	R	Vector sum(total) kVA min after reset	FLOAT32		StotVecMn
42289~42290	R	Arithmetic sum(total) kVA min after reset	FLOAT32		StotAthMn
42291~42292	R	kVA a max time after reset	UINT32	(unit : 1 sec)	tSaMx

42293~42294	R	kVA b max time after reset	UINT32	(unit : 1 sec)	tSbMx
42295~42296	R	kVA c max time after reset	UINT32	(unit : 1 sec)	tScMx
42297~42298	R	Vector sum(total) kVA max time after reset	UINT32	(unit : 1 sec)	tStotVecMx
42299~42300	R	Arithmetic sum(total) kVA max time after reset	UINT32	(unit : 1 sec)	tStotAthMx
42301~42302	R	kVA a min time after reset	UINT32	(unit : 1 sec)	tSaMn
42303~42304	R	kVA b min time after reset	UINT32	(unit : 1 sec)	tSbMn
42305~42306	R	kVA c min time after reset	UINT32	(unit : 1 sec)	tScMn
42307~42308	R	Vector sum(total) kVA min time after reset	UINT32	(unit : 1 sec)	tStotVecMn
42309~42310	R	Arithmetic sum(total) kVA min time after reset	UINT32	(unit : 1 sec)	tStotAthMn
42311~42312	R	kVA max/min reset time	UINT32	(unit : 1 sec)	tSrst
Power Factor					
42313~42314	R	PF a	FLOAT32		Pfa
42315~42316	R	PF b	FLOAT32		PFb
42317~42318	R	PF c	FLOAT32		PFc
42319~42320	R	Vector sum(total) PF	FLOAT32		PFtotVec
42321~42322	R	Arithmetic sum(total) PF	FLOAT32		PFtotAth
42323~42324	R	PF a max after reset	FLOAT32		PFaMx
42325~42326	R	PF b max after reset	FLOAT32		PFbMx
42327~42328	R	PF c max after reset	FLOAT32		PFcMx
42329~42330	R	Vector sum(total) PF max after reset	FLOAT32		PFtotVecMx
42331~42332	R	Arithmetic sum(total) PF max after reset	FLOAT32		PFtotAthMx
42333~42334	R	PF a min after reset	FLOAT32		PFaMn
42335~42336	R	PF b min after reset	FLOAT32		PFbMn
42337~42338	R	PF c min after reset	FLOAT32		PFcMn
42339~42340	R	Vector sum(total) PF min after reset	FLOAT32		PFtotVecMn
42341~42342	R	Arithmetic sum(total) PF min after reset	FLOAT32		PFtotAthMn
42343~42344	R	PF a max time after reset	UINT32	(unit : 1 sec)	tPFaMx
42345~42346	R	PF b max time after reset	UINT32	(unit : 1 sec)	tPFbMx
42347~42348	R	PF c max time after reset	UINT32	(unit : 1 sec)	tPFcMx
42349~42350	R	Vector sum(total) PF max time after reset	UINT32	(unit : 1 sec)	tPFtotVecMx
42351~42352	R	Arithmetic sum(total) PF max time after reset	UINT32	(unit : 1 sec)	tPFtotAthMx
42353~42354	R	PF a min time after reset	UINT32	(unit : 1 sec)	tPFaMn
42355~42356	R	PF b min time after reset	UINT32	(unit : 1 sec)	tPFbMn
42357~42358	R	PF c min time after reset	UINT32	(unit : 1 sec)	tPFcMn
42359~42360	R	Vector sum(total) PF min time after reset	UINT32	(unit : 1 sec)	tPFtotVecMn
42361~42362	R	Arithmetic sum(total) PF min time after reset	UINT32	(unit : 1 sec)	tPFtotAthMn
42363~42364	R	PF max/min reset time	UINT32	(unit : 1 sec)	tPFrst
Fundamental Active Power[Reserved]					
Fundamental Reactive Power[Reserved]					
Fundamental Apparent Power[Reserved]					
Fundamental Power Factor[Reserved]					
Energy of Active Power					
42563~42564	R	kWh a received	INT32		EPaRec
42565~42566	R	kWh b received	INT32		EPbRec
42567~42568	R	kWh c received	INT32		EPcRec
42569~42570	R	kWh total received	INT32		EPtotRec
42571~42572	R	kWh a delivered	INT32		EPaDel
42573~42574	R	kWh b delivered	INT32		EPbDel
42575~42576	R	kWh c delivered	INT32		EPcDel
42577~42578	R	kWh total delivered	INT32		EPtotDel
42579~42580	R	kWh a sum	INT32		EPaSum
42581~42582	R	kWh b sum	INT32		EPbSum
42583~42584	R	kWh c sum	INT32		EPcSum
42585~42586	R	kWh total sum	INT32		EPtotSum
42587~42588	R	kWh a net	INT32		EPaNet
42589~42590	R	kWh b net	INT32		EPbNet
42591~42592	R	kWh c net	INT32		EPcNet
42593~42594	R	kWh total net	INT32		EPtotNet
42595~42596	R	kWh reset time	UINT32	(unit : 1 sec)	tEPrst

Energy of Reactive Power					
42597~42598	R	kVARh a received	INT32		EQaRec
42599~42600	R	kVARh b received	INT32		EQbRec
42601~42602	R	kVARh c received	INT32		EQcRec
42603~42604	R	kVARh total received	INT32		EQtotRec
42605~42606	R	kVARh a delivered	INT32		EQaDel
42607~42608	R	kVARh b delivered	INT32		EQbDel
42609~42610	R	kVARh c delivered	INT32		EQcDel
42611~42612	R	kVARh total delivered	INT32		EQtotDel
42613~42614	R	kVARh a sum	INT32		EQaSum
42615~42616	R	kVARh b sum	INT32		EQbSum
42617~42618	R	kVARh c sum	INT32		EQcSum
42619~42620	R	kVARh total sum	INT32		EQtotSum
42621~42622	R	kVARh a net	INT32		EQaNet
42623~42624	R	kVARh b net	INT32		EQbNet
42625~42626	R	kVARh c net	INT32		EQcNet
42627~42628	R	kVARh total net	INT32		EQtotNet
42629~42630	R	kVARh reset time	UINT32	(unit : 1 sec)	tEQrst
Energy of Apparent Power					
42631~42632	R	kVAh a	INT32		ESa
42633~42634	R	kVAh b	INT32		ESb
42635~42636	R	kVAh c	INT32		ESc
42637~42638	R	kVAh total	INT32		EStot
42639~42640	R	kVAh reset time	UINT32	(unit : 1 sec)	tESrst
Active Power Demand					
42641~42642	R	kW a demand	FLOAT32		PDa
42643~42644	R	kW b demand	FLOAT32		PDb
42645~42646	R	kW c demand	FLOAT32		PDc
42647~42648	R	Total kW demand	FLOAT32		PDtot
42649~42650	R	Instantaneous kW demand reset time	UINT32	(unit : 1 sec)	tPDinstRst
42651~42652	R	kW a demand max after reset	FLOAT32		PDaMx
42653~42654	R	kW b demand max after reset	FLOAT32		PDbMx
42655~42656	R	kW c demand max after reset	FLOAT32		PDcMx
42657~42658	R	Total kW demand max after reset	FLOAT32		PDtotMx
42659~42660	R	kW a demand min after reset	FLOAT32		PDaMn
42661~42662	R	kW b demand min after reset	FLOAT32		PDbMn
42663~42664	R	kW c demand min after reset	FLOAT32		PDcMn
42665~42666	R	Total kW demand min after reset	FLOAT32		PDtotMn
42667~42668	R	kW a demand max time after reset	UINT32	(unit : 1 sec)	tPDaMx
42669~42670	R	kW b demand max time after reset	UINT32	(unit : 1 sec)	tPDbMx
42671~42672	R	kW c demand max time after reset	UINT32	(unit : 1 sec)	tPDcMx
42673~42674	R	Total kW demand max time after reset	UINT32	(unit : 1 sec)	tPDtotMx
42675~42676	R	kW a demand min time after reset	UINT32	(unit : 1 sec)	tPDaMn
42677~42678	R	kW b demand min time after reset	UINT32	(unit : 1 sec)	tPDbMn
42679~42680	R	kW c demand min time after reset	UINT32	(unit : 1 sec)	tPDcMn
42681~42682	R	Total kW demand min time after reset	UINT32	(unit : 1 sec)	tPDtotMn
42683~42684	R	kW demand max/min reset time	UINT32	(unit : 1 sec)	tPDrst
Reactive Power Demand					
42685~42686	R	kVAR a demand	FLOAT32		QDa
42687~42688	R	kVAR b demand	FLOAT32		QDb
42689~42690	R	kVAR c demand	FLOAT32		QDc
42691~42692	R	Vector sum(total) kVAR demand	FLOAT32		QDtotVec
42693~42694	R	Arithmetic sum(total) kVAR demand	FLOAT32		QDtotAth
42695~42696	R	Instantaneous kVAR demand reset time	UINT32	(unit : 1 sec)	tQDinstRst
42697~42698	R	kVAR a demand max after reset	FLOAT32		QDaMx
42699~42700	R	kVAR b demand max after reset	FLOAT32		QDbMx
42701~42702	R	kVAR c demand max after reset	FLOAT32		QDcMx
42703~42704	R	Vector sum(total) kVAR demand max after reset	FLOAT32		QDtotVecMx
42705~42706	R	Arithmetic sum(total) kVAR demand max after reset	FLOAT32		QDtotAthMx

42707~42708	R	kVAR a demand min after reset	FLOAT32		QDaMn
42709~42710	R	kVAR b demand min after reset	FLOAT32		QDbMn
42711~42712	R	kVAR c demand min after reset	FLOAT32		QDcMn
42713~42714	R	Vector sum(total) kVAR demand min after reset	FLOAT32		QDtotVecMn
42715~42716	R	Arithmetic sum(total) kVAR demand min after reset	FLOAT32		QDtotAthMn
42717~42718	R	kVAR a demand max time after reset	UINT32	(unit : 1 sec)	tQDaMx
42719~42720	R	kVAR b demand max time after reset	UINT32	(unit : 1 sec)	tQDbMx
42721~42722	R	kVAR c demand max time after reset	UINT32	(unit : 1 sec)	tQDcMx
42723~42724	R	Vector sum(total) kVAR demand max time after reset	UINT32	(unit : 1 sec)	tQDtotVecMx
42725~42726	R	Arithmetic sum(total) kVAR demand max time after reset	UINT32	(unit : 1 sec)	tQDtotAthMx
42727~42728	R	kVAR a demand min time after reset	UINT32	(unit : 1 sec)	tQDaMn
42729~42730	R	kVAR b demand min time after reset	UINT32	(unit : 1 sec)	tQDbMn
42731~42732	R	kVAR c demand min time after reset	UINT32	(unit : 1 sec)	tQDcMn
42733~42734	R	Vector sum(total) kVAR demand min time after reset	UINT32	(unit : 1 sec)	tQDtotVecMn
42735~42736	R	Arithmetic sum(total) kVAR demand min time after reset	UINT32	(unit : 1 sec)	tQDtotAthMn
42737~42738	R	kVAR demand max/min reset time	UINT32	(unit : 1 sec)	tQDrst
Apparent Power Demand					
42739~42740	R	kVA a demand	FLOAT32		SDa
42741~42742	R	kVA b demand	FLOAT32		SDb
42743~42744	R	kVA c demand	FLOAT32		SDc
42745~42746	R	Vector sum(total) kVA demand	FLOAT32		SDtotVec
42747~42748	R	Arithmetic sum(total) kVA demand	FLOAT32		SDtotAth
42749~42750	R	Instantaneous kVA demand reset time	UINT32	(unit : 1 sec)	tSDinstRst
42751~42752	R	kVA a demand max after reset	FLOAT32		SDaMx
42753~42754	R	kVA b demand max after reset	FLOAT32		SDbMx
42755~42756	R	kVA c demand max after reset	FLOAT32		SDcMx
42757~42758	R	Vector sum(total) kVA demand max after reset	FLOAT32		SDtotVecMx
42759~42760	R	Arithmetic sum(total) kVA demand max after reset	FLOAT32		SDtotAthMx
42761~42762	R	kVA a demand min after reset	FLOAT32		SDaMn
42763~42764	R	kVA b demand min after reset	FLOAT32		SDbMn
42765~42766	R	kVA c demand min after reset	FLOAT32		SDcMn
42767~42768	R	Vector sum(total) kVA demand min after reset	FLOAT32		SDtotVecMn
42769~42770	R	Arithmetic sum(total) kVA demand min after reset	FLOAT32		SDtotAthMn
42771~42772	R	kVA a demand max time after reset	UINT32	(unit : 1 sec)	tSDaMx
42773~42774	R	kVA b demand max time after reset	UINT32	(unit : 1 sec)	tSDbMx
42775~42776	R	kVA c demand max time after reset	UINT32	(unit : 1 sec)	tSDcMx
42777~42778	R	Vector sum(total) kVA demand max time after reset	UINT32	(unit : 1 sec)	tSDtotVecMx
42779~42780	R	Arithmetic sum(total) kVA demand max time after reset	UINT32	(unit : 1 sec)	tSDtotAthMx
42781~42782	R	kVA a demand min time after reset	UINT32	(unit : 1 sec)	tSDaMn
42783~42784	R	kVA b demand min time after reset	UINT32	(unit : 1 sec)	tSDbMn
42785~42786	R	kVA c demand min time after reset	UINT32	(unit : 1 sec)	tSDcMn
42787~42788	R	Vector sum(total) kVA demand min time after reset	UINT32	(unit : 1 sec)	tSDtotVecMn
42789~42790	R	Arithmetic sum(total) kVA demand min time after reset	UINT32	(unit : 1 sec)	tSDtotAthMn
42791~42792	R	kVA demand max/min reset time	UINT32	(unit : 1 sec)	tSDrst
Current Demand					
42793~42794	R	Current a demand	FLOAT32		IDa
42795~42796	R	Current b demand	FLOAT32		IDb
42797~42798	R	Current c demand	FLOAT32		IDc
42799~42800	R	Current average demand	FLOAT32		IDavg
42801~42802	R	Instantaneous Current demand reset time	UINT32	(unit : 1 sec)	tIDinstRst
42803~42804	R	Current a max demand after reset	FLOAT32		IDaMx
42805~42806	R	Current b max demand after reset	FLOAT32		IDbMx
42807~42808	R	Current c max demand after reset	FLOAT32		IDcMx
42809~42810	R	Current average max demand after reset	FLOAT32		IDavgMx
42811~42812	R	Current a min demand after reset	FLOAT32		IDaMn
42813~42814	R	Current b min demand after reset	FLOAT32		IDbMn
42815~42816	R	Current c min demand after reset	FLOAT32		IDcMn
42817~42818	R	Current average min demand after reset	FLOAT32		IDavgMn
42819~42820	R	Current a max demand time after reset	UINT32	(unit : 1 sec)	tIDaMx

42821~42822	R	Current b max demand time after reset	UINT32	(unit : 1 sec)	tIDbMx
42823~42824	R	Current c max demand time after reset	UINT32	(unit : 1 sec)	tIDcMx
42825~42826	R	Current average max demand time after reset	UINT32	(unit : 1 sec)	tIDavgMx
42827~42828	R	Current a min demand time after reset	UINT32	(unit : 1 sec)	tIDaMn
42829~42830	R	Current b min demand time after reset	UINT32	(unit : 1 sec)	tIDbMn
42831~42832	R	Current c min demand time after reset	UINT32	(unit : 1 sec)	IDcMn
42833~42834	R	Current average min demand time after reset	UINT32	(unit : 1 sec)	tIDavgMn
42835~42836	R	Current demand max/min reset time	UINT32	(unit : 1 sec)	tIDrst
Active Power Thermal Demand[Reserved]					
Reactive Power Thermal Demand[Reserved]					
Apparent Power Thermal Demand[Reserved]					
Current Thermal Demand[Reserved]					
Unbalance of Voltage[Reserved]					
Unbalance of Current[Reserved]					
Mains Signaling[Reserved]					
Overdeviation of Voltage[Reserved]					
Underdeviation of Voltage[Reserved]					
Crest Factor of Voltage[Reserved]					
Crest Factor of Current[Reserved]					
K-Factor of Current[Reserved]					
Flicker					
43321~43322	R	Flicker Short-term a	FLOAT32		Psta
43323~43324	R	Flicker Short-term b	FLOAT32		Pstb
43325~43326	R	Flicker Short-term c	FLOAT32		Pstc
43327~43328	R	Flicker Long-term a	FLOAT32		Plta
43329~43330	R	Flicker Long-term b	FLOAT32		Pltb
43331~43332	R	Flicker Long-term c	FLOAT32		Pltc
43333~43334	R	Flicker Long-term sliding a	FLOAT32		PltSa
43335~43336	R	Flicker Long-term sliding b	FLOAT32		PltSb
43337~43338	R	Flicker Long-term sliding c	FLOAT32		PltSc
43339~43340	R	Flicker Short-term a max after reset	FLOAT32		PstaMx
43341~43342	R	Flicker Short-term b max after reset	FLOAT32		PstbMx
43343~43344	R	Flicker Short-term c max after reset	FLOAT32		PstcMx
43345~43346	R	Flicker Long-term a max after reset	FLOAT32		PltaMx
43347~43348	R	Flicker Long-term b max after reset	FLOAT32		PltbMx
43349~43350	R	Flicker Long-term c max after reset	FLOAT32		PltcMx
43351~43352	R	Flicker Long-term sliding a max after reset	FLOAT32		PltSaMx
43353~43354	R	Flicker Long-term sliding b max after reset	FLOAT32		PltSbMx
43355~43356	R	Flicker Long-term sliding c max after reset	FLOAT32		PltScMx
43357~43358	R	Flicker Short-term a max time after reset	UINT32	(unit : 1 sec)	tPstaMx
43359~43360	R	Flicker Short-term b max time after reset	UINT32	(unit : 1 sec)	tPstbMx
43361~43362	R	Flicker Short-term c max time after reset	UINT32	(unit : 1 sec)	tPstcMx
43363~43364	R	Flicker Long-term a max time after reset	UINT32	(unit : 1 sec)	tPltaMx
43365~43366	R	Flicker Long-term b max time after reset	UINT32	(unit : 1 sec)	tPltbMx
43367~43368	R	Flicker Long-term c max time after reset	UINT32	(unit : 1 sec)	tPltcMx
43369~43370	R	Flicker Long-term sliding a max time after reset	UINT32	(unit : 1 sec)	tPltSaMx
43371~43372	R	Flicker Long-term sliding b max time after reset	UINT32	(unit : 1 sec)	tPltSbMx
43373~43374	R	Flicker Long-term sliding c max time after reset	UINT32	(unit : 1 sec)	tPltScMx
43375~43376	R	Flicker max/min reset time	UINT32	(unit : 1 sec)	tFlickRst
THD of Voltage					
43377~43378	R	Voltage a THD	FLOAT32		THDva
43379~43380	R	Voltage b THD	FLOAT32		THDvb
43381~43382	R	Voltage c THD	FLOAT32		THDvc
43383~43384	R	Total Even Harmonic Distortion voltage a	FLOAT32		TEHDva
43385~43386	R	Total Even Harmonic Distortion voltage b	FLOAT32		TEHDvb
43387~43388	R	Total Even Harmonic Distortion voltage c	FLOAT32		TEHDvc
43389~43390	R	Total Odd Harmonic Distortion voltage a	FLOAT32		TOHDva
43391~43392	R	Total Odd Harmonic Distortion voltage b	FLOAT32		TOHDvb
43393~43394	R	Total Odd Harmonic Distortion voltage c	FLOAT32		TOHDvc
43395~43396	R	THD voltage a max after reset	FLOAT32		THDvaMx

43397~43398	R	THD voltage b max after reset	FLOAT32		THDvbMx
43399~43400	R	THD voltage c max after reset	FLOAT32		THDvcMx
43401~43402	R	THD voltage a min after reset	FLOAT32		THDvaMn
43403~43404	R	THD voltage b min after reset	FLOAT32		THDvbMn
43405~43406	R	THD voltage c min after reset	FLOAT32		THDvcMn
43407~43408	R	THD voltage a max time after reset	UINT32	(unit : 1 sec)	tTHDvaMx
43409~43410	R	THD voltage b max time after reset	UINT32	(unit : 1 sec)	tTHDvbMx
43411~43412	R	THD voltage c max time after reset	UINT32	(unit : 1 sec)	tTHDvcMx
43413~43414	R	THD voltage a min time after reset	UINT32	(unit : 1 sec)	tTHDvaMn
43415~43416	R	THD voltage b min time after reset	UINT32	(unit : 1 sec)	tTHDvbMn
43417~43418	R	THD voltage c min time after reset	UINT32	(unit : 1 sec)	tTHDvcMn
43419~43420	R	THD voltage max/min reset time	UINT32	(unit : 1 sec)	tTHDvRst
THD of Current					
43421~43422	R	Current a THD	FLOAT32		THDia
43423~43424	R	Current b THD	FLOAT32		THDib
43425~43426	R	Current c THD	FLOAT32		THDic
43427~43428	R	Total Even Harmonic Distortion current a	FLOAT32		TEHDia
43429~43430	R	Total Even Harmonic Distortion current b	FLOAT32		TEHDib
43431~43432	R	Total Even Harmonic Distortion current c	FLOAT32		TEHDic
43433~43434	R	Total Odd Harmonic Distortion current a	FLOAT32		TOHDia
43435~43436	R	Total Odd Harmonic Distortion current b	FLOAT32		TOHDib
43437~43438	R	Total Odd Harmonic Distortion current c	FLOAT32		TOHDic
43439~43440	R	Total Demand Distortion current a	FLOAT32		TDDia
43441~43442	R	Total Demand Distortion current b	FLOAT32		TDDib
43443~43444	R	Total Demand Distortion current c	FLOAT32		TDDic
43445~43446	R	THD current a max after reset	FLOAT32		THDiaMx
43447~43448	R	THD current b max after reset	FLOAT32		THDibMx
43449~43450	R	THD current c max after reset	FLOAT32		THDicMx
43451~43452	R	THD current a min after reset	FLOAT32		THDiaMn
43453~43454	R	THD current b min after reset	FLOAT32		THDibMn
43455~43456	R	THD current c min after reset	FLOAT32		THDicMn
43457~43458	R	THD current a max time after reset	UINT32	(unit : 1 sec)	tTHDiaMx
43459~43460	R	THD current b max time after reset	UINT32	(unit : 1 sec)	tTHDibMx
43461~43462	R	THD current c max time after reset	UINT32	(unit : 1 sec)	tTHDicMx
43463~43464	R	THD current a min time after reset	UINT32	(unit : 1 sec)	tTHDiaMn
43465~43466	R	THD current b min time after reset	UINT32	(unit : 1 sec)	tTHDibMn
43467~43468	R	THD current c min time after reset	UINT32	(unit : 1 sec)	tTHDicMn
43469~43470	R	THD current max/min reset time	UINT32	(unit : 1 sec)	tTHDiRst
Vector Diagram					
43471~43472	R	Vector Diagram Voltage a x	FLOAT32		VDVax
43473~43474	R	Vector Diagram Voltage a y	FLOAT32		VDVay
43475~43476	R	Vector Diagram Voltage a magnitude	FLOAT32		VDVaMgn
43477~43478	R	Vector Diagram Voltage a angle	FLOAT32		VDVaAng
43479~43480	R	Vector Diagram Voltage b x	FLOAT32		VDVbx
43481~43482	R	Vector Diagram Voltage b y	FLOAT32		VDVby
43483~43484	R	Vector Diagram Voltage b magnitude	FLOAT32		VDVbMgn
43485~43486	R	Vector Diagram Voltage b angle	FLOAT32		VDVbAng
43487~43488	R	Vector Diagram Voltage c x	FLOAT32		VDVcx
43489~43490	R	Vector Diagram Voltage c y	FLOAT32		VDVcy
43491~43492	R	Vector Diagram Voltage c magnitude	FLOAT32		VDVcMgn
43493~43494	R	Vector Diagram Voltage c angle	FLOAT32		VDVcAng
43495~43496	R	Vector Diagram Voltage g x	FLOAT32		VDVgx
43497~43498	R	Vector Diagram Voltage g y	FLOAT32		VDVgy
43499~43500	R	Vector Diagram Voltage g magnitude	FLOAT32		VDVgMgn
43501~43502	R	Vector Diagram Voltage g angle	FLOAT32		VDVgAng
43503~43504	R	Vector Diagram Current a x	FLOAT32		VDIax
43505~43506	R	Vector Diagram Current a y	FLOAT32		VDIay
43507~43508	R	Vector Diagram Current a magnitude	FLOAT32		VDIaMgn

43509~43510	R	Vector Diagram Current a angle	FLOAT32		VDIaAng
43511~43512	R	Vector Diagram Current b x	FLOAT32		VDIbx
43513~43514	R	Vector Diagram Current b y	FLOAT32		VDIby
43515~43516	R	Vector Diagram Current b magnitude	FLOAT32		VDIbMgn
43517~43518	R	Vector Diagram Current b angle	FLOAT32		VDIbAng
43519~43520	R	Vector Diagram Current c x	FLOAT32		VDIcx
43521~43522	R	Vector Diagram Current c y	FLOAT32		VDIcy
43523~43524	R	Vector Diagram Current c magnitude	FLOAT32		VDIcMgn
43525~43526	R	Vector Diagram Current c angle	FLOAT32		VDIcAng
43527~43528	R	Vector Diagram Current n x	FLOAT32		VDInx
43529~43530	R	Vector Diagram Current n y	FLOAT32		VDIny
43531~43532	R	Vector Diagram Current n magnitude	FLOAT32		VDInMgn
43533~43534	R	Vector Diagram Current n angle	FLOAT32		VDInAng
Harmonics of Voltage / Current					
43535	R/W	Harm. Data update request	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
43536	R/W	Harm. Select channel	UINT16		0 = ReVa (Va Real component) 1 = ReVb (Vb Real component) 2 = ReVc (Vc Real component) 3 = ReVg (Vg Real component) 4 = ImVa (Va Imaginary component) 5 = ImVb (Vb Imaginary component) 6 = ImVc (Vc Imaginary component) 7 = ImVg (Vg Imaginary component) 8 = MgnVa (Va Magnitude) 9 = MgnVb (Vb Magnitude) 10 = MgnVc (Vc Magnitude) 11 = MgnVg (Vg Magnitude) 12 = AngVa (Va Angle) 13 = AngVb (Vb Angle) 14 = AngVc (Vc Angle) 15 = AngVg (Vg Angle) 16 = ReIa (Ia Real component) 17 = ReIb (Ib Real component) 18 = ReIc (Ic Real component) 19 = ReIn (In Real component) 20 = ImIa (Ia Imaginary component) 21 = ImIb (Ib Imaginary component) 22 = ImIc (Ic Imaginary component) 23 = ImIn (In Imaginary component) 24 = MgnIa (Ia Magnitude) 25 = MgnIb (Ib Magnitude) 26 = MgnIc (Ic Magnitude) 27 = MgnIn (In Magnitude) 28 = AngIa (Ia Angle) 29 = AngIb (Ib Angle) 30 = AngIc (Ic Angle) 31 = AngIn (In Angle)
43537	R/W	Harm. Selected channel data update request	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
43538~43539	R	Harm. DC data	FLOAT32		
43540~43541	R	Harm. 1st data	FLOAT32		
43542~43543	R	Harm. 2nd data	FLOAT32		
•••		•••	FLOAT32		•••
43664~43665	R	Harm. 63th data	FLOAT32		
Interharmonics of Voltage / Current					
43666	R/W	InterHarm. Data update request	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
43667	R/W	InterHarm. Select channel	UINT16		0 = MgnVa (Va Magnitude) 1 = MgnVb (Vb Magnitude) 2 = MgnVc (Vc Magnitude) 3 = MgnVg (Vg Magnitude) 4 = MgnIa (Ia Magnitude) 5 = MgnIb (Ib Magnitude) 6 = MgnIc (Ic Magnitude) 7 = MgnIn (In Magnitude)
43668	R/W	InterHarm. Selected channel data update request	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
43669~43670	R	InterHarm. DC data	FLOAT32		
43671~43672	R	InterHarm. 1st data	FLOAT32		
43673~43674	R	InterHarm. 2nd data	FLOAT32		
•••		•••	FLOAT32		•••
43795~43796	R	InterHarm. 63th data	FLOAT32		
FFT of Voltage / Current					

43797	R/W	FFT Data update request	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
43798	R/W	FFT Select channel	UINT16		0 = ReVa (Va Real component) 1 = ReVb (Vb Real component) 2 = ReVc (Vc Real component) 3 = ReVg (Vg Real component) 4 = ImVa (Va Imaginary component) 5 = ImVb (Vb Imaginary component) 6 = ImVc (Vc Imaginary component) 7 = ImVg (Vg Imaginary component) 8 = MgnVa (Va Magnitude) 9 = MgnVb (Vb Magnitude) 10 = MgnVc (Vc Magnitude) 11 = MgnVg (Vg Magnitude) 12 = ReIa (Ia Real component) 13 = ReIb (Ib Real component) 14 = ReIc (Ic Real component) 15 = ReIn (In Real component) 16 = ImIa (Ia Imaginary component) 17 = ImIb (Ib Imaginary component) 18 = ImIc (Ic Imaginary component) 19 = ImIn (In Imaginary component) 20 = MgnIa (Ia Magnitude) 21 = MgnIb (Ib Magnitude) 22 = MgnIc (Ic Magnitude) 23 = MgnIn (In Magnitude)
43799	R/W	FFT Selected channel data update request	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
43800~43801	R	FFT DC data	FLOAT32		
43802~43803	R	FFT 1st data	FLOAT32		
43804~43805	R	FFT 2nd data	FLOAT32		
•••		•••	FLOAT32		•••
45334~45335	R	FFT 767th data	FLOAT32		
Waveform					
45336	R/W	Waveform Data update request (128sample * 2cycle)	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
45337	R/W	Waveform Select channel	UINT16		0 = Va / 1 = Vb / 2 = Vc / 3 = Vg 4 = Ia / 5 = Ib / 6 = Ic / 7 = In
45338	R/W	Waveform Selected channel data update request	UINT16		Write(0x00FF or 0x0001) = Update Req. Read(0x0000) = Update Done
45339~45340	R	Waveform 1st data	FLOAT32		
45341~45342	R	Waveform 2nd data	FLOAT32		
•••		•••	FLOAT32		•••
45849~45850	R	Waveform 256th data	FLOAT32		
Event Record[Reserved]					
Predicted Demand					
46171~46172	R	Demand time [SubInterval x SubInterval Num]	UINT32		DmdTime
46173~46174	R	Accumulation count in Demand Period	UINT32		AccCnt
46175~46176	R	Total count of Demand Period	UINT32		TotalCnt
46177~46178	R	Residual count in Demand Period [Total count - Accumulation count]	UINT32		ResidualCnt
46179~46180	R	Active Power Current Demand of phase A	FLOAT32		PCDa
46181~46182	R	Active Power Current Demand of phase B	FLOAT32		PCDb
46183~46184	R	Active Power Current Demand of phase C	FLOAT32		PCDc
46185~46186	R	Active Power Current Demand of total	FLOAT32		PCDtot
46187~46188	R	Active Power Predicted Demand of phase A	FLOAT32		PPDa
46189~46190	R	Active Power Predicted Demand of phase B	FLOAT32		PPDb
46191~46192	R	Active Power Predicted Demand of phase C	FLOAT32		PPDc
46193~46194	R	Active Power Predicted Demand of total	FLOAT32		PPDtot
46195~46196	R	Reactive Power Current Demand of phase A	FLOAT32		QCDa
46197~46198	R	Reactive Power Current Demand of phase B	FLOAT32		QCDb
46199~46200	R	Reactive Power Current Demand of phase C	FLOAT32		QCDc
46201~46202	R	Reactive Power Current Demand of vector sum	FLOAT32		QCDtotVec
46203~46204	R	Reactive Power Current Demand of arithmetic sum [reserved]	FLOAT32		QCDtotAth
46205~46206	R	Reactive Power Predicted Demand of phase A	FLOAT32		QPDa
46207~46208	R	Reactive Power Predicted Demand of phase B	FLOAT32		QPDb
46209~46210	R	Reactive Power Predicted Demand of phase C	FLOAT32		QPDc
46211~46212	R	Reactive Power Predicted Demand of vector sum	FLOAT32		QPDtotVec
46213~46214	R	Reactive Power Predicted Demand of arithmetic sum [reserved]	FLOAT32		QPDtotAth
46215~46216	R	Apparent Power Current Demand of phase A	FLOAT32		SCDa

46217~46218	R	Apparent Power Current Demand of phase B	FLOAT32		SCDb
46219~46220	R	Apparent Power Current Demand of phase C	FLOAT32		SCDc
46221~46222	R	Apparent Power Current Demand of vector sum	FLOAT32		SCDtotVec
46223~46224	R	Apparent Power Current Demand of arithmetic sum [reserved]	FLOAT32		SCDtotAth
46225~46226	R	Apparent Power Predicted Demand of phase A	FLOAT32		SPDa
46227~46228	R	Apparent Power Predicted Demand of phase B	FLOAT32		SPDb
46229~46230	R	Apparent Power Predicted Demand of phase C	FLOAT32		SPDc
46231~46232	R	Apparent Power Predicted Demand of vector sum	FLOAT32		SPDtotVec
46233~46234	R	Apparent Power Predicted Demand of arithmetic sum [reserved]	FLOAT32		SPDtotAth
46235~46236	R	Current Current Demand of phase A	FLOAT32		CCDa
46237~46238	R	Current Current Demand of phase B	FLOAT32		CCDb
46239~46240	R	Current Current Demand of phase C	FLOAT32		CCDc
46241~46242	R	Current Current Demand of average	FLOAT32		CCDtot
46243~46244	R	Current Predicted Demand of phase A	FLOAT32		CPDa
46245~46246	R	Current Predicted Demand of phase B	FLOAT32		CPDb
46247~46248	R	Current Predicted Demand of phase C	FLOAT32		CPDc
46249~46250	R	Current Predicted Demand of average	FLOAT32		CPDtot
46251~46252	R	Predicted Demand Reset Time	UINT32	(unit : 1 sec)	tPredDRst
46253~47000		Invalid	UINT16		

Power Quality section

Address	Attribute	Measurement	Format	Range†	Descriptions
47001	R	CB Trip count	UINT16		
47002	R	Dip count	UINT16		
47003	R	Dip curve count	UINT16		
47004	R	Swell count	UINT16		
47005	R	Interruption count	UINT16		
47006	R	Transient count	UINT16		
47007	R	Inrush count	UINT16		
47008~47010	R	Reserved	UINT16		
47011~49000		Invalid	UINT16		

Configuration section

Address	Attribute	Measurement	Format	Default	Descriptions
General (Factory, Sensing)					
40051~40060	R/W	Owner (e.g. company name)	STRING		up to 20 chars
40061~40065	R/W	Tag1 (e.g. device location)	STRING		up to 10 chars
40066~40070	R/W	Tag2 (e.g. device number or identifier)	STRING		up to 10 chars
40071	R/W	Time zone offset: GMT reference	INT16	540 min	-720 ~ 720 (1 min)
40072	R/W	Time sync. source	UINT16	0 = COM1	0 = COM1 1 = COM2 2 = COM3 3 = COM4 4 = COM5
40073	R/W	Time sync. type	UINT16	0 = UTC	0 = UTC / 1 = Local
40074	R/W	SNTP time sync. interval	UINT16	0 = Sync disable	0 = SNTP time sync. disable 1 ~ 64800 (1 min)
40075~40076	R/W	Current Date/Time set (UNIX time format)	UINT32		(1 sec)
40077~40080	R	Reserved	UINT16		
40081	R/W	Demo mode selection	UINT16	0 = Normal mode	0 = None 1 = Demo1 (No event) 2 = Demo2 (Dip, Swell event) 3 = Demo3 (Transient event) 4 = Demo4 (6 event each Event-Group) 5 = Demo5 (Repeat Demo4 2 times)
40082	R/W	Wiring mode[결선모드]	UINT16	3 = 3P4W	0 = 1P2W 1 = 1P3W 2 = 3P3O 3 = 3P4W
40083	R/W	Reserved [Reference channel of Frequency]	UINT16	0 = A phase	0 = A phase 1 = B phase 2 = C phase
40084	R/W	Reserved[Nominal frequency]	UINT16	0 = 60 Hz	0 = 60 Hz / 1 = 50 Hz
40085~40086	R/W	Nominal voltage (secondary side)	S3 UINT32	220.000 V	0.001 ~ 999999.000 (0.001 V)
40087~40088	R/W	Nominal voltage of Vg (secondary side)	S3 UINT32	220.000 V	0.001 ~ 999999.000 (0.001 V)
40089~40090	R/W	Nominal current (secondary side)	S3 UINT32	5.000 A	0.001 ~ 999999.000 (0.001 A)
40091~40092	R/W	Nominal current of In (secondary side)	S3 UINT32	5.000 A	0.001 ~ 999999.000 (0.001 A)
40093~40094	R	Reserved	UINT16		
40095~40096	R/W	Primary PT voltage	S3 UINT32	220.000 V	0.001 ~ 999999.000 (0.001 V)
40097~40098	R/W	Secondary PT voltage	S3 UINT32	220.000 V	0.001 ~ 999999.000 (0.001 V)
40099~40100	R/W	Primary PT voltage of Vg	S3 UINT32	220.000 V	0.001 ~ 999999.000 (0.001 V)
40101~40102	R/W	Secondary PT voltage of Vg	S3 UINT32	220.000 V	0.001 ~ 999999.000 (0.001 V)
40103~40104	R/W	Primary CT current	S3 UINT32	5.000 A	0.001 ~ 999999.000 (0.001 A)
40105~40106	R/W	Secondary CT current	S3 UINT32	5.000 A	0.001 ~ 999999.000 (0.001 A)
40107~40108	R/W	Primary CT current of In	S3 UINT32	5.000 A	0.001 ~ 999999.000 (0.001 A)
40109~40110	R/W	Secondary CT current of In	S3 UINT32	5.000 A	0.001 ~ 999999.000 (0.001 A)
40111~40114	R/W	Reserved	UINT16		
40115	R/W	Reserved[Polarity of Va]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40116	R/W	Reserved[Polarity of Vb]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40117	R/W	Reserved[Polarity of Vc]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40118	R/W	Reserved[Polarity of Vg]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40119	R/W	Reserved[Polarity of Ia]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40120	R/W	Reserved[Polarity of Ib]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40121	R/W	Reserved[Polarity of Ic]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40122	R/W	Reserved[Polarity of In]	UINT16	0 = Normal	0 = Normal / 1 = Inverted
40123	R/W	Reserved	UINT16		
40124	R/W	Reserved[Phase order]	UINT16	0 = ABC	0 = ABC / 1 = ACB
40125	R/W	Pickup phase voltage (secondary side)	UINT16	5 V	1 ~ 45 (1 V)
40126	R/W	Pickup Vg voltage (secondary side)	UINT16	5 V	1 ~ 45 (1 V)
40127	R/W	Pickup phase current (secondary side)	UINT16	10 mA	10 ~ 1000 (1 mA)
40128	R/W	Pickup In current (secondary side)	UINT16	10 mA	10 ~ 1000 (1 mA)
40129	R/W	Reserved	UINT16		
40130	R/W	Pickup phase power (secondary side)	UINT16	1 W	1 ~ 450 (1 W)

40131~40140	R/W	Reserved	UINT16		
Communication					
40141	R/W	Reserved [COM1]	UINT16		
40142	R/W	Reserved [COM1]	UINT16		
40143	R/W	COM2 Unit id	UINT16	247	1 ~ 247 (1)
40144	R/W	COM2 Protocol	UINT16	1 = Modbus RTU	0 = Rootech [For factory] 1 = Modbus RTU 2 = Modbus Master 3 = GPS
40145	R/W	COM2 Baudrate	UINT16	3 = 9600 bps	0 = 1200 bps 1 = 2400 bps 2 = 4800 bps 3 = 9600 bps 4 = 19200 bps 5 = 38400 bps 6 = 57600 bps 7 = 115200 bps
40146	R/W	COM2 Bit setting	UINT16	4 = 8E1 (8 data bit, Even parity bit, 1 stop bit)	0 = 8N1 / 1 = 8N2 2 = 8O1 / 3 = 8O2 4 = 8E1 / 5 = 8E2 (data-bit, parity-bit, stop-bit)
40147	R/W	COM2 Receive timeout	UINT16	3000 ms	100 ~ 15000 (1 ms)
40148	R/W	COM2 RTS delay	UINT16	10 ms	0 ~ 1000 (1 ms)
40149	R/W	COM3 Unit id	UINT16	247	1 ~ 247 (1)
40150	R/W	COM3 Protocol	UINT16	1 = Modbus RTU	0 = Rootech [For factory] 1 = Modbus RTU 2 = Modbus Master 3 = GPS
40151	R/W	COM3 Baudrate	UINT16	3 = 9600 bps	0 = 1200 bps 1 = 2400 bps 2 = 4800 bps 3 = 9600 bps 4 = 19200 bps 5 = 38400 bps 6 = 57600 bps 7 = 115200 bps
40152	R/W	COM3 Bit setting	UINT16	4 = 8E1 (8 data bit, Even parity bit, 1 stop bit)	0 = 8N1 / 1 = 8N2 2 = 8O1 / 3 = 8O2 4 = 8E1 / 5 = 8E2 (data-bit, parity-bit, stop-bit)
40153	R/W	COM3 Receive timeout	UINT16	3000 ms	100 ~ 15000 (1 ms)
40154	R/W	COM3 RTS delay	UINT16	10 ms	0 ~ 1000 (1 ms)
40155	R/W	Ethernet(COM4-6) Webserver config access	UINT16	1 = Enable	0 = Disable / 1 = Enable
40156	R/W	Ethernet(COM4-6) Enable webserver	UINT16	1 = Enable	0 = Disable / 1 = Enable
40157	R/W	Ethernet(COM4-6) Enable SNMP	UINT16	1 = Enable	0 = Disable / 1 = Enable
40158~40159	R/W	Ethernet(COM4-6) Primary DNS	UINT32	168.126.63.1	0.0.0.0 ~ 255.255.255.255
40160~40161	R/W	Ethernet(COM4-6) Secondary DNS	UINT32	168.126.63.2	0.0.0.0 ~ 255.255.255.255
40162~40163	R/W	Ethernet(COM4-6) SNTP primary server	UINT32	203.255.248.57(CBFF F839)	0.0.0.0 ~ 255.255.255.255
40164~40165	R/W	Ethernet(COM4-6) SNTP secondary server	UINT32	121.137.94.37(7989 5E25)	0.0.0.0 ~ 255.255.255.255
40166~40185	R/W	Ethernet(COM4-6) SMTP email address	STRING	network@rootech.com	up to 40 chars
40186	R/W	Ethernet(COM4-6) SMTP port number	UINT16	25	25 or 48152 ~ 65535
40187	R/W	Ethernet(COM4-6) SMTP connection timeout	UINT16	60 sec	60 ~ 3600 (1 sec)
40188	R/W	Ethernet(COM4-6) Modbus TCP idle timeout	UINT16	0 sec	0 ~ 65535 (1 sec)
40189	R/W	Ethernet(COM4-6) TCP keep alive	UINT16	0 sec	0 ~ 65535 (1 sec)
40190	R/W	Ethernet(COM4-6) Receive timeout	UINT16	3000 ms	100 ~ 15000 (1 ms)
40191	R/W	Ethernet(COM4-6) ARP cache timeout	UINT16	15 min	1 ~ 65000 min
40192~40194	R	COM4 MAC address	UINT16		00:00:00-00:00:00
40195	R/W	COM4 Protocol	UINT16	4 = Modbus TCP	0 = Rootech [For factory] 1 = Modbus RTU 2 = Modbus Master 4 = Modbus TCP 5 = ModGate 6 = EtherGate 7 = IEC61850
40196~40197	R/W	COM4 IP address	UINT32	192.168.10.3	0.0.0.0 ~ 255.255.255.255
40198~40199	R/W	COM4 Subnet mask	UINT32	255.255.255.0	0.0.0.0 ~ 255.255.255.255

40200~40201	R/W	COM4 Gateway	UINT32	192.168.10.1	0.0.0.0 ~ 255.255.255.255
40202	R/W	COM4 10/100BaseT port config	UINT16	0 = Auto	0 = Auto 1 = 10_Half / 2 = 10_Full 3 = 100_Half / 4 = 100_Full
40203	R/W	COM4 VLAN-ID	UINT16	1	1 ~ 254 (1)
40204~40206	R	COM5 MAC address	UINT16		00:00:00-00:00:00
40207	R/W	COM5 Protocol	UINT16	4 = Modbus TCP	0 = Rootech [For factory] 1 = Modbus RTU 2 = Modbus Master 4 = Modbus TCP 5 = ModGate 6 = EtherGate 7 = IEC61850
40208~40209	R/W	COM5 IP address	UINT32	192.168.10.4	0.0.0.0 ~ 255.255.255.255
40210~40211	R/W	COM5 Subnet mask	UINT32	255.255.255.0	0.0.0.0 ~ 255.255.255.255
40212~40213	R/W	COM5 Gateway	UINT32	192.168.10.1	0.0.0.0 ~ 255.255.255.255
40214	R/W	COM5 100BaseFX port config	UINT16	1 = 100_Full	0 = 100_Half / 1 = 100_Full
40215	R/W	COM5 VLAN-ID	UINT16	1	1 ~ 254 (1)
40216~40218	R	COM6 MAC address	UINT16		00:00:00-00:00:00
40219	R/W	COM6 Protocol	UINT16	4 = Modbus TCP	0 = Rootech [For factory] 1 = Modbus RTU 2 = Modbus Master 4 = Modbus TCP 5 = ModGate 6 = EtherGate 7 = IEC61850
40220~40221	R/W	COM6 IP address	UINT32	192.168.10.5	0.0.0.0 ~ 255.255.255.255
40222~40223	R/W	COM6 Subnet mask	UINT32	255.255.255.0	0.0.0.0 ~ 255.255.255.255
40224~40225	R/W	COM6 Gateway	UINT32	192.168.10.1	0.0.0.0 ~ 255.255.255.255
40226	R/W	COM6 100BaseFX port config	UINT16	1 = 100_Full	0 = 100_Half / 1 = 100_Full
40227	R/W	COM6 VLAN-ID	UINT16	1	1 ~ 254 (1)
40228~40230	R	Reserved	UINT16		
Display					
IEC61000-4-30					
40261	R/W	Dip threshold of IEC61000-4-30	S1 UINT16	80.0 %	1.0 ~ 99.0 (0.1 %)
40262	R/W	Dip hysteresis of IEC61000-4-30	S1 UINT16	2.0 %	1.0 ~ 20.0 (0.1 %)
40263	R/W	Swell threshold of IEC61000-4-30	S1 UINT16	120.0 %	101.0 ~ 200.0 (0.1 %)
40264	R/W	Swell hysteresis of IEC61000-4-30	S1 UINT16	2.0 %	1.0 ~ 20.0 (0.1 %)
40265	R/W	Interruption threshold of IEC61000-4-30	S1 UINT16	10.0 %	1.0 ~ 99.0 (0.1 %)
40266	R/W	Interruption hysteresis of IEC61000-4-30	S1 UINT16	2.0 %	1.0 ~ 20.0 (0.1 %)
40267	R/W	Inrush threshold of current	S1 UINT16	120.0 %	101.0 ~ 300.0 (0.1 %)
40268	R/W	Inrush hysteresis of current	S1 UINT16	2.0 %	1.0 ~ 20.0 (0.1 %)
40269	R/W	Peak threshold for transient peak detection (percent of nominal voltage)	S1 UINT16	160.0 %	101.0 ~ 250.0 (0.1 %)
40270	R/W	Deviation tolerance for transient cycle deviation detection (percent of nominal voltage)	S1 UINT16	10.0 %	1.0 ~ 100.0 (0.1 %)
40271	R/W	Deviation duration for transient cycle deviation detection (percent of cycle)	S1 UINT16	25.0 %	1.0~100.0 (0.1 %) of cycle time
40272	R/W	Reference voltage selection for Dip / Swell detection	UINT16	0 = Udin	0 = Udin (declared input voltage) 1 = Usr (sliding voltage)
40273	R/W	Sub-interval of demand	UINT16	1 min	1 ~ 120 (1 min)
40274	R/W	Number of sub-interval for demand period	UINT16	15	1 ~ 120 (1)
40275	R/W	Selection of Demand power source	UINT16	1 = Net	0 = Receive / 1 = Net
40276	R/W	Selection of TDD Source	UINT16	0 = TDD Nominal Current	0 = TDD Nominal Current 1 = Max Demand (IEEE519)
40277~40278	R/W	Nominal current of TDD (secondary side)	S3 UINT32	5.000 A	0.001 ~ 999999.000 (0.001 A)
40279	R/W	Time constant of thermal demand	UINT16	60 min	1 ~ 240 (1 min)
40280	R/W	Thermal level of thermal demand	S2 UINT16	0.90	0.00 ~ 1.00 (0.01)
40281	R/W	Grouping method of Harmonics/Interharmonics	UINT16	1 = Sub-group	0 = Group / 1 = Sub-group
40282	R/W	Selection of voltage Harmonics reference	UINT16	0 = Fund	0 = Fund / 1 = RMS / 2 = Nominal / 3 = Abs
40283	R/W	Selection of current Harmonics reference	UINT16	0 = Fund	0 = Fund / 1 = RMS / 2 = Nominal / 3 = Abs
40284	R/W	Selection of voltage THD reference	UINT16	0 = Fund	0 = Fund / 1 = RMS / 2 = Nominal / 3 = Abs

40285	R/W	Selection of current THD reference	UINT16	0 = Fund	0 = Fund / 1 = RMS / 2 = Nominal / 3 = Abs
40286	R/W	X-axis reference of Harmonics	UINT16	0 = Order Num	0 = Order Num / 1 = Hz
40287	R/W	Aggregation method	UINT16	0 = RMS	0 = RMS / 1 = Mean
40288~40290	R	Reserved	UINT16		
EN50160[Reserved]					
Event / Waveform Record					
40341	R/W	Record cycle for instantaneous waveform	UINT16	2 cycle	2 ~ 8 (1 cycle)
40342	R/W	Dip event enable	UINT16	1 = Enable	0 = Disable / 1 = Enable
40343	R/W	Swell event enable	UINT16	1 = Enable	0 = Disable / 1 = Enable
40344	R/W	Interruption event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40345	R/W	Inrush Current event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40346	R/W	Transient Peak event enable	UINT16	1 = Enable	0 = Disable / 1 = Enable
40347	R/W	Transient Deviation event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40348	R/W	EN50160 event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40349	R/W	Dip Curve event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40350	R/W	DI (Digital Input) change event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40351	R/W	DO (Digital Output) change event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40352	R/W	Control Power on/off event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40353	R/W	Configuration change event enable	UINT16	0 = Disable	0 = Disable / 1 = Enable
40354	R/W	Selection of Dip Curve type	UINT16	0 = Curve1	0 =Curve1 / 1 = Curve2
40355	R/W	Total event record length (include Special event)	UINT16	1000	100 ~ 1000 (1)
40356	R/W	Special event record length	UINT16	50	10 ~ 100 (1)
40357	R/W	Record type of event list	UINT16	0 = Circular	0 = Circular / 1 = Stop-when-full
40358	R/W	Voltage channel record enable for Special event	UINT16	L4'b1111	L4'bxxxx (0:Disable/1:Enable) {b1:Va, b2:Vb, b3:Vc, b4:Vg}
40359	R/W	Current channel record enable for Special event	UINT16	L4'b1111	L4'bxxxx (0:Disable/1:Enable) {b1:Ia, b2:Ib, b3:Ic ,b4:In}
40360	R/W	Waveform record sampling ratio for High-Sampling event	UINT16	2 = 1024 point	0 = 256 point / 1 = 512 point / 2 = 1024 point
40361	R/W	Waveform record previous cycle for High-Sampling event	UINT16	1 cycle	1 ~ 4 (1 cycle)
40362	R/W	Waveform record post cycle for Transient event	UINT16	1 cycle	1 ~ 7 (1 cycle)
40363	R/W	Waveform record sampling ratio for Normal-Sampling event	UINT16	2 = 128 point	0 = 32 point / 1 = 64 point / 2 = 128 point
40364	R/W	Waveform record previous cycle for Normal-Sampling event	UINT16	16 cycle	1 ~ 64 (1 cycle)
40365	R/W	Waveform record post cycle for Dip event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40366	R/W	Waveform record post cycle for Swell event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40367	R/W	Waveform record post cycle for Interruption event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40368	R/W	Waveform record post cycle for Inrush Current event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40369	R/W	Rms record sampling ratio for Normal-Sampling event	UINT16	0 = 2 point	0 = 2 point
40370	R/W	Rms record previous cycle for Normal-Sampling event	UINT16	16 cycle	1 ~ 64 (1 cycle)
40371	R/W	Rms record post cycle for Dip event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40372	R/W	Rms record post cycle for Swell event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40373	R/W	Rms record post cycle for Interruption event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40374	R/W	Rms record post cycle for Inrush Current event	UINT16	16 cycle	1 ~ 127 (1 cycle)
40375~40380	R	Reserved	UINT16		
Digital Input / Output					
40381	R/W	CB-In delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40382	R/W	DI1 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40383	R/W	DI2 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40384	R/W	DI3 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40385	R/W	DI4 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40386	R/W	DI5 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40387	R/W	DI6 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40388	R/W	DI7 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40389	R/W	DI8 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40390	R/W	DI9 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)

40391	R/W	DI10 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40392	R/W	DI11 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40393	R/W	DI12 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40394	R/W	DI13 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40395	R/W	DI14 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40396	R/W	DI15 delay time	S3 UINT16	0.010 sec	0.001 ~ 10.000 (0.001 sec)
40397~40400	R	Reserved	UINT16		
40401	R/W	CB Operation delay time (지속시간)	S1 UINT16	3.0 sec	0.1 ~ 10.0 (0.1 sec)
40402	R/W	CB-On/CB-Off Seal In Time (지연시간)	S1 UINT16	0.5 sec	0.1 ~ 3.0 (0.1 sec)
40403	R/W	Initial state of DO when control-power is reset	UINT16	0 = All off	0 = All Off 1 = Return previous state before control-power reset
40404	R/W	DO1 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40405	R/W	DO1 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40406	R/W	DO2 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40407	R/W	DO2 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40408	R/W	DO3 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40409	R/W	DO3 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40410	R/W	DO4 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40411	R/W	DO4 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40412	R/W	DO5 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40413	R/W	DO5 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40414	R/W	DO6 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40415	R/W	DO6 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40416	R/W	DO7 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40417	R/W	DO7 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40418	R/W	DO8 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40419	R/W	DO8 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40420	R/W	DO9 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40421	R/W	DO9 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40422	R/W	DO10 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40423	R/W	DO10 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40424	R/W	DO11 relay type	UINT16	0 = Self-resetting	0 = Self-resetting (연속) 1 = Pulsed (펄스) 2 = Flickering (플리커)
40425	R/W	DO11 dwell time	UINT16	5 sec	1 ~ 600 (1 sec)
40426~40430	R	Reserved	UINT16		
CB and DO On/Off Control					
40431	R/W	CB On(Close) command [Remote mode상태에서만 동작, Local mode에서는 illegal data value라는 error 응답]	UINT16		0x00FF or 0x0001 = On(Close) 0x0000 = None
40432	R/W	CB Off(Open) command [Remote mode상태에서만 동작, Local mode에서는 illegal data value라는 error 응답]	UINT16		0x00FF or 0x0001 = Off(Open) 0x0000 = None
40433	R/W	Digital Output control (bit operation)	UINT16		L8'bxxxx xxxx (0:Off/1:On) {b1:DO1, b2:DO2, b3:DO3, b4:DO4, b5:DO5, b6:DO6, b7:DO7, b8:DO8} H3'bxxx (0:Off/1:On) b1:DO9, b2:DO10, b3:DO11}

40434	R/W	Digital Output channel 1	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40435	R/W	Digital Output channel 2	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40436	R/W	Digital Output channel 3	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40437	R/W	Digital Output channel 4	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40438	R/W	Digital Output channel 5	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40439	R/W	Digital Output channel 6	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40440	R/W	Digital Output channel 7	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40441	R/W	Digital Output channel 8	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40442	R/W	Digital Output channel 9	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40443	R/W	Digital Output channel 10	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40444	R/W	Digital Output channel 11	UINT16		0x00FF or 0x0001 = On 0x0000 = Off
40445~40450	R	Reserved	UINT16		
Trend[Reserved]					
Event reset					
40841	R/W	Event record (& Captured waveform) clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40842	R/W	CB Trip count clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40843	R/W	Dip count clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40844	R/W	Dip curve count clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40845	R/W	Swell count clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40846	R/W	Interruption count clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40847	R/W	Transient count clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40848	R/W	Inrush count clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40849~40850	R	Reserved	UINT16		
Max/Min reset					
40851	R/W	Frequency Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40852	R/W	Voltage Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40853	R/W	Current Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40854	R/W	Active Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40855	R/W	Reactive Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40856	R/W	Apparent Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40857	R/W	Power Factor Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40858	R/W	Fund. Active Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40859	R/W	Fund. Reactive Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40860	R/W	Fund. Apparent Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40861	R/W	Fund. Power Factor Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40862	R/W	Demand of Active Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40863	R/W	Demand of Reactive Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40864	R/W	Demand of Apparent Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40865	R/W	Demand of Current Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40866	R/W	Thermal Demand of Active Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40867	R/W	Thermal Demand of Reactive Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40868	R/W	Thermal Demand of Apparent Power Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40869	R/W	Thermal Demand of Current Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40870	R/W	Unbalance of Voltage Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40871	R/W	Unbalance of Current Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40872	R/W	Mains Signaling Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40873	R/W	Overdeviation of Voltage Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40874	R/W	Underdeviation of Voltage Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40875	R/W	Crest Factor of Voltage Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40876	R/W	Crest Factor of Current Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40877	R/W	K-Factor of Current Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable

40878	R/W	Flicker Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40879	R/W	THD of Voltage Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40880	R/W	THD of Current Mx/Mn clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
Instantaneous Demand reset					
40881	R/W	Inst. Demand of Active Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40882	R/W	Inst. Demand of Reactive Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40883	R/W	Inst. Demand of Apparent Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40884	R/W	Inst. Demand of Current clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40885	R/W	Inst. Thermal Demand of Active Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40886	R/W	Inst. Thermal Demand of Reactive Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40887	R/W	Inst. Thermal Demand of Apparent Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40888	R/W	Inst. Thermal Demand of Current clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
Predicted Demand reset					
40889	R/W	Predicted Demand clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40890	R	Reserved	UINT16		
Energy reset					
40891	R/W	Energy of Active Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40892	R/W	Energy of Reactive Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
40893	R/W	Energy of Apparent Power clear	UINT16	0 = Disable	0 = Disable / 1 = Enable
ETC. reset					
40894	R/W	Reserved[Trend data clear]	UINT16	0 = Disable	0 = Disable / 1 = Enable
40895	R/W	Reserved[EN50160 data clear]	UINT16	0 = Disable	0 = Disable / 1 = Enable
40896~40897	R/W	Max/Min Onetime All Clear (40851~40861, 40879~40880)	UINT32	0 = Disable	0 = Disable 1 ~ 60x60x24x365 (1 sec)
40898~40900	R	Reserved	UINT16		
Energy set					
40901~40902	R/W	Set kWh a received	INT32	0 kWh	0 ~ 999999999 (1 kWh)
40903~40904	R/W	Set kWh b received	INT32	0 kWh	0 ~ 999999999 (1 kWh)
40905~40906	R/W	Set kWh c received	INT32	0 kWh	0 ~ 999999999 (1 kWh)
40907~40908	R/W	Set kWh a delivered	INT32	0 kWh	0 ~ 999999999 (1 kWh)
40909~40910	R/W	Set kWh b delivered	INT32	0 kWh	0 ~ 999999999 (1 kWh)
40911~40912	R/W	Set kWh c delivered	INT32	0 kWh	0 ~ 999999999 (1 kWh)
40913~40914	R/W	Set kVARh a received	INT32	0 kVARh	0 ~ 999999999 (1 kVARh)
40915~40916	R/W	Set kVARh b received	INT32	0 kVARh	0 ~ 999999999 (1 kVARh)
40917~40918	R/W	Set kVARh c received	INT32	0 kVARh	0 ~ 999999999 (1 kVARh)
40919~40920	R/W	Set kVARh a delivered	INT32	0 kVARh	0 ~ 999999999 (1 kVARh)
40921~40922	R/W	Set kVARh b delivered	INT32	0 kVARh	0 ~ 999999999 (1 kVARh)
40923~40924	R/W	Set kVARh c delivered	INT32	0 kVARh	0 ~ 999999999 (1 kVARh)
40925~40926	R/W	Set kVAh a	INT32	0 kVAh	0 ~ 999999999 (1 kVAh)
40927~40928	R/W	Set kVAh b	INT32	0 kVAh	0 ~ 999999999 (1 kVAh)
40929~40930	R/W	Set kVAh c	INT32	0 kVAh	0 ~ 999999999 (1 kVAh)
40931~40940	R	Reserved	UINT16		
40941~-41000		Invalid	UINT16		

System information section

Address	Attribute	Measurement	Format	Default	Descriptions
General Info					
40001	R	Product model	UINT16		2500 = Accura 2500 2300 = Accura 2300 2350 = Accura 2350 3300 = Accura 3300 3500 = Accura 3500 3550 = Accura 3550 5500 = Accura 5500 7500 = Accura 7500 7800 = Accura 7800 8500 = Accura 8500 1010 = RTM 010 1050 = RTM 050 1100 = RTM 100 1200 = RTM 200 1300 = RTM 300 1301 = RTP 300 1302 = LPU 300
40002~40003	R	Serial number	UINT32		제품번호, Data Format Page62참고
40004	R	Communication Card Status	UINT16	0 = No Connection	0 = No Connection 1 = Connection
40005~40006	R	Reserved [Communication Card Serial number]	UINT32		제품번호, Data Format Page62참고
40007	R	Extension IO Card Status	UINT16	0 = No Connection	0 = No Connection 1 = Connection
40008~40009	R	Reserved [Extension IO Card Serial number]	UINT32		제품번호, Data Format Page62참고
40010	R	Hardware version	UINT16		
40011	R	Firmware version	UINT16		
40012	R	Map version	UINT16		
40013	R	Calibration year	UINT16		
40014	R	Calibration month	UINT16		
40015	R	Calibration date	UINT16		
40016	R	Reserved	UINT16		
40017	R	DSP FW version	UINT16		
40018	R	Template version	UINT16		
40019	R	Reserved [Status of DSP]	UINT16		0 = Inactive / 1 = Active
40020~40025	R	Reserved	UINT16		•••
40026~-40050		Invalid	UINT16		