

DATA READING FORMAT**Read Serial Number**

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 Serial Number		10 ASCII

Total Bytes 10

Read MFG ID

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 FW Version		16 ASCII

Total Bytes 16

Read Cumulative kWh

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 kWh		9 ASCII

Total Bytes 9

Read Tamper Status History-0x44

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 Month Tamper Status		3 ASCII
	4 Record Separator		1 0x1E

Total Bytes 4

Read Month kWh History-0x45

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 kWh		7 ASCII
	8 Record Separator		1 0x1E

Total Bytes 8

Read MD History-0x46

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 MD		5 ASCII
	6 Field Separator		1 0x1F
	7 Date		6 "DDMMYY"
	13 Field Separator		1 0x1F
	14 Time		4 "hhmm"
	18 Record Separator		1 0x1E

Total Bytes 18

Read Tamper log Info

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 Event Code		3 ASCII
	4 Field Separator		1 0x1F
	5 Voltage		5 ASCII

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10 Field Seprator	1 0x1F
11 Effective Current	5 ASCII
16 Field Seprator	1 0x1F
17 Power Factor	4 ASCII
21 Field Seprator	1 0x1F
22 kWh	8 ASCII
30 Field Seprator	1 0x1F
31 Date	6 "DDMMYY"
37 Field Seprator	1 0x1F
38 Time	6 "hhmmss"

Total Bytes 43

Read Instant Data-0x5C

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 Voltage	5 ASCII	
	6 Field Seprator	1 0x1F	
	7 Effective Current	5 ASCII	
	12 Field Seprator	1 0x1F	
	13 Date	6 "DDMMYY"	
	19 Field Seprator	1 0x1F	
	20 Time	6 "hhmmss"	
	26 Field Seprator	1 0x1F	
	27 Power Factor	4 ASCII	
	31 Field Seprator	1 0x1F	
	32 Frequency	5 ASCII	
	37 Field Seprator	1 0x1F	
	38 Effective Power	8 ASCII	
	46 Field Seprator	1 0x1F	
	47 Apparent Power	8 ASCII	
	55 Field Seprator	1 0x1F	
	56 Billing Count	3 ASCII	
	59 Field Seprator	1 0x1F	
	60 Self Diagnostic	1 ASCII	

Total Bytes 60

Read LS Data-0x5D

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 Date	6 "DDMMYY"	
	6 Field Seprator	1 0x1F	
	7 Block kWh	4 ASCII	
	13 Field Seprator	1 0x1F	
	14 Next 46 block kWh + Field Seprator	230 (ASCII+hex)	
	244 Last block kWh	4	

Total Bytes 246

Read LS Entries -0x5F

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 LS Entries		4 ASCII
Total Bytes			4

Read TOD First 4 Zones-0x60

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 kWh Zone1		8 ASCII
	9 Field Separator		1 0x1F
	10 kVAh Zone1		8 ASCII
	18 Field Separator		1 0x1F
	19 MD Zone1		4 ASCII
	23 Field Separator		1
	24 Date Zone 1		6 "DDMMYY"
	30 Field Separator		1 ASCII
	31 Time Zone 1		4 "hhmm"
	35 Record Separator		1 0x1E
	36 Zone 2 to Zone 3		70 (ASCII+hex)
	106 kWh Zone4		8 ASCII
	114 Field Separator		1
	115 kVAh Zone4		8 ASCII
	123 Field Separator		1
	124 MD Zone4		4 ASCII
	128 Field Separator		1
	129 Date Zone 4		6 ASCII
	135 Field Separator		1
	136 Time Zone 4		4 ASCII
Total Bytes			139

Read TOD Next 4 Zones-0x61

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 kWh Zone5		8 ASCII
	9 Field Separator		1 0x1F
	10 kVAh Zone5		8 ASCII
	18 Field Separator		1 0x1F
	19 MD Zone5		4 ASCII
	23 Field Separator		1
	24 Date Zone 5		6 "DDMMYY"
	30 Field Separator		1
	31 Time Zone 5		4 "hhmm"
	35 Record Separator		1 0x1E
	36 Zone 6 to Zone 7		70 (ASCII+hex)
	106 kWh Zone8		8 ASCII
	114 Field Separator		1
	115 kVAh Zone8		8 ASCII
	123 Field Separator		1
	124 MD Zone8		4 ASCII
	128 Field Separator		1

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129 Date Zone 8	6 ASCII
135 Field Seprator	1
136 Time Zone 8	4 ASCII

Total Bytes 139

Read Billing History-0x62

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 Bill Date	6	"DDMMYY"
	7 Field Seprator	1	0x1F
	8 Bill Time	4	"hhmm"
	12 Field Seprator	1	0x1F
	13 Cumulative kWh	8	ASCII
	21 Field Seprator	1	
	22 Cumulative kVAh	8	ASCII
	30 Field Seprator	1	
	31 MD	4	ASCII
	35 Field Seprator	1	0x1F
	36 Date	6	"DDMMYY"
	42 Field Seprator	1	0x1F
	43 Time	4	"hhmm"

Total Bytes 46

Read TOD History First 4 Zones-0x63

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 kWh Zone1	8	ASCII
	9 Field Seprator	1	0x1F
	10 kVAh Zone1	8	ASCII
	18 Field Seprator	1	0x1F
	19 MD Zone1	4	ASCII
	23 Field Seprator	1	
	24 Date Zone 1	6	"DDMMYY"
	30 Field Seprator	1	
	31 Time Zone 1	4	"hhmm"
	35 Record Seprator	1	0x1E
	36 Zone 2 to Zone 3	70	(ASCII+hex)
	106 kWh Zone4	8	ASCII
	114 Field Seprator	1	
	115 kVAh Zone4	8	ASCII
	123 Field Seprator	1	
	124 MD Zone4	4	ASCII
	128 Field Seprator	1	
	129 Date Zone 4	6	ASCII
	135 Field Seprator	1	
	136 Time Zone 4	4	ASCII

Total Bytes 139

Read TODHistory Next 4 Zones-0x64

HPSEB Reading

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 kWh Zone5	8	ASCII
	9 Field Seprator	1	0x1F
	10 kVAh Zone5	8	ASCII
	18 Field Seprator	1	0x1F
	19 MD Zone5	4	ASCII
	23 Field Seprator	1	
	24 Date Zone 5	6	"DDMMYY"
	30 Field Seprator	1	
	31 Time Zone 5	4	"hhmm"
	35 Record Seprator	1	0x1E
	36 Zone 6 to Zone 7	70	(ASCII+hex)
	106 kWh Zone8	8	ASCII
	114 Field Seprator	1	
	115 kVAh Zone8	8	ASCII
	123 Field Seprator	1	
	124 MD Zone8	4	ASCII
	128 Field Seprator	1	
	129 Date Zone 8	6	ASCII
	135 Field Seprator	1	
	136 Time Zone 8	4	ASCII
Total Bytes		139	

Read Format Data-0x65

Byte Seq	BYTE INFO	BYTE INFO SIZE	BYTE TYPE
	1 Serial Number	10	ASCII
	11 Date	6	ASCII
	17 Time	4	ASCII
	21 MAKE	4	"EEPL"
	25 KNO	10	ASCII
	35 kWh	5	ASCII
	40 kVAh	5	ASCII
	45 kW MD	4	ASCII
	49 Power Off Count	4	ASCII
	53 Voltage	3	ASCII
	56 Current	4	ASCII
	60 Power Factor	4	ASCII
	64 Last NM Occ Date	6	"DDMMYY"
	70 Last NM Res Date	4	"hhmm"
	74 Last MAG OCC Date	6	"DDMMYY"
	80 Last MAG Res Date	4	"hhmm"
	84 Last REV OCC Date	6	"DDMMYY"
	90 Last REV Res Date	4	"hhmm"
	94 Last ND OCC Date	6	"DDMMYY"
	100 Last ND Res Date	4	"hhmm"
	104 Last EARTH OCC Date	6	"DDMMYY"
	110 Last EARTH Res Date	4	"hhmm"
	114 Last CO OCC Date	6	"DDMMYY"
	120 Last CO Res Date	4	"hhmm"
Total Bytes		123	

Remark

Remark

Remark

(6+2)

Remark

0-NM;1-OL;2-MAG;3-REV;4_ND;5-EARTH;6-OV;7-CO;8-LV

Remark

(4+2)

Remark

(2+2)

Remark

Event Code

(3+1)

HPSEB Reading

(2+2)

(1+2)

	Remark	UNIT
(3+1)		V
(2+2)		A
(1+2)		
(2+2)		Hz
(5+2)		W
(5+2)		VA

	Remark

divide kWh by 100

Remark

Remark

divide kWh by 100
divide kVAh by 100

Remark

divide kWh by 100
divide kVAh by 100

Remark

divide kWh by 100
divide kVAh by 100

(2+2)

Remark

divide kWh by 100
divide kVAh by 100

Remark

divide kWh by 100
divide kVAh by 100

Remark

(2+1)

(2+1)
(1+2)