SPM-3 Multi-Function Power Meter



User guide

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Chapter 1 Product Introduction

1.1 SPM-3 Introduction

SPM-3 is designed for single and three phase power monitoring and measurement. It provides wide rang of measurements including current, voltage, energy, watt, power factor, watt-hour, frequency...etc.

Product Features:

- Comply IEC62053-22 Class 0.5 standard
- V · I accuracy <0.2%, Wh<0.5%, with bi-directional energy measurement
- More than 90 parameters measure
- Current direction setting to correct the display value
- Large size of LCD with backlight adjustment in 4-stage, easy to operate
- Power Quality measurement in V/I unbalance \ V Eligibility \ Min. & Max. parameters
- Compact size, standard DIN 96*96, equipped with four clips to tight the meter on the sheet metal
- With RS485 communication protocol

1.2 Caution



1.2.1 Danger

The meter contains hazardous voltages. The meter should never be disassembled. Failure to observe this practice can result in serious injury or death. Any work on or near energized meters, meter sockets, or other metering equipment can present a danger of electrical shock. It is strongly recommended that all work should be performed only by qualified industrial electricians and metering specialist. Arch Meter Corporation assumes no responsibility if your electrical installer does not follow the appropriate national and local electrical codes.

1.2.2 PRODUCT WARRANTY & CUSTOMER SUPPORT

Arch Meter Corporation warrants all products free from defects in material and workmanship for a period of one year from the date of shipping. During the warranty period, we will, at our position, either repair any product that proves to be defective. To report any defect, please contact: +886-3-5631359 or sales@archmeter.com.

Please have the model, serial number and a detailed problem description available when you call. If the problem concerns a particular reading, please have all meter readings available. When returning any merchandise to Arch Meter Corporation a return SN. is required.

1.2.3 LIMITATION OF WARRANTY

This warranty does not apply to defects resulting from unauthorized modification, misuse, or use for reason other than electrical power monitoring. The supplied meter is not a user-serviceable product.

1.3 Product Spec.

Aux Power	AC80-264V/DC100-300V, Max.2.3W
Input Voltage	CATII 10V-600V L-L*
Input Current	2mA-5A
Accuracy	V · I 0.2% · W 0.5% (PF=1.0)
Frequency	45-65Hz
Measures	V, I, kW, kvar, kVA, kWh, kvarh, kVAh
	PF, Frequency, Demand,
	Running hour
Alarms	NONE、OVER V/I、OVER F; UNDER V /I、UNDER F; OVER Dmd;
	ANY
Power Quality	V/I unbalance · V Eligibility · Min.& Max, parameters
Display	Mono 68X59 LCD
Communication	RS485*1, LonTalk(option)
Timer	RTC
Wiring Ports	Aux Power · Voltage · Current · DO*2 · RS485 · LON
1/0	DO OUTPUT*2; DO1 Alarm output . DO2 Pulse/ Alarm output
Operation	-20℃-70℃
Temperature	
Storage	-25℃-80℃
Temperature	
Humidity	20-90%RH
Dust/Water	Panel: IP52, Case: IP20
Proof Rating	
Size	$96(W) \times 96(H) \times 97(L) \text{ mm}$
Power	0.45~0.7W (Backlight off)
consumption	1.3~1.7W (Max. ,Backlight)
	2.3W (Max. Backlight & Lon module)
Environmental	Indoor use
Conditions	Altitude up to 2000M
	Transient overvoltage on the mains supply is 2500V
	Pollution degree : 2

^{*}CATII-Is for measurement performed on circuits directly connected to the low voltage installation

Chapter 2 Installation

2.1 Safety

On receipt of the instrument and prior to installation, makes sure it has not been damaged during shipment.

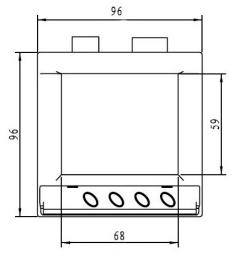
The instrument is no longer safe when,

- a) Shows clear signs of damage
- b) Does not work
- c) Long storage under extreme conditions
- d) Damage during shipment

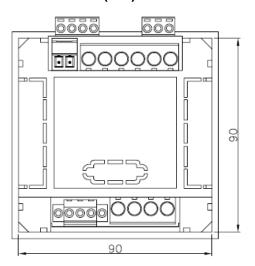
2.2 Mounting

- This instrument should install on vibration free switchboard and with environment temperature between $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$, humility between 20-90%RH (no condensing)
- For the instrument is already equipped with an internal protection fuse, a 1AmAT HBC fuse is still recommended during installation
- Prior to maintain/repair this instrument, always disconnect this instrument from all power sources
- Only have qualified and authorized personnel to carry out installation, maintenance and repair
- Water proof for front panel IP52, case IP20

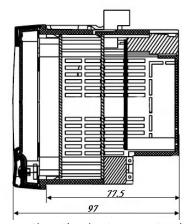
2.2.1 Size and Latch Front View(mm)



Back View (mm)



Side View(mm)

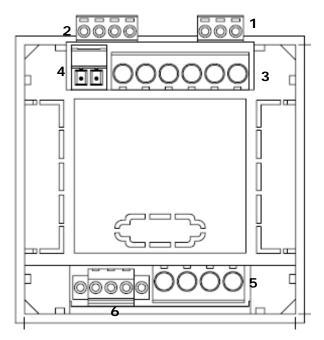


After mounting the instrument, place all four support latch in position.

Panel cut-out area is 91.5x91.5mm (+/-0.5mm)

Chapter 3 Connection

3.1 Back view of connect port



1.Aux Power(N-, ,L+)
2.Digital output (Com2 DO2 Com1 DO1)
3.Current Terminal (3L 3S 2L 2S 1L 1S)
4.Lon Port(D-,D+)
5. Voltage Terminal (N,C,B,A)
6.RS485 Port (D-,COM,D+)

3.1.1 Aux. Power Supply

- Before powering the instrument, verify the pin position at L and N, leave the middle pin blank.
- Power standard is 80-264Vac/100-300Vdc.
- An internal protection fuse 250V, 1A is equipped.
- The instrument Aux. power must not be earthed.

3.1.2 Digital Output

- 2 channel 4 pin digital output (Com2 DO2 Com1 DO1)
- 12-240VAC-DC/120mA max
- Com1 DO1 for digital output1, Com2 DO2 for digital output 2
- Port 1 assign selection: NONE · OVER V/I · OVER F; UNDER V /I · UNDER F; OVER Dmd; ANY ·
- Port 2 assign selection: Energy pulse output base on kh(wh/ pulse) setting or alarm output same as port 1

3.1.3 Current Terminal

- The current input are 3 channels/6 terminals(3L 3S 2L 2S 1L 1S)
- Input current range from 2mA to 5A (CT secondary)



The CT input current must not exceed 10A



Warning!

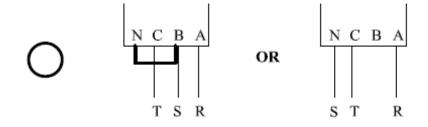
Be sure to short secondary's of each current transformer, before removing the CT connection inputs.

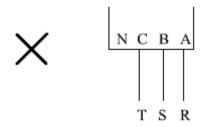
3.1.4 Voltage Terminal

- There are 4 voltage terminals (N.C.B.A)
- The instrument measure voltage from 10V-600V RMS. (PT secondary)
- Voltage must not exceed 600V, in case of over 600V, voltage transformer need to be applied.

Note!

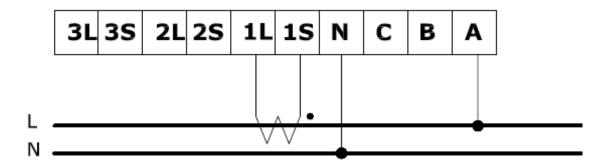
3P3W/2CT and 3P3W/3CT wiring, only connect "C A N", and leave "B" blank



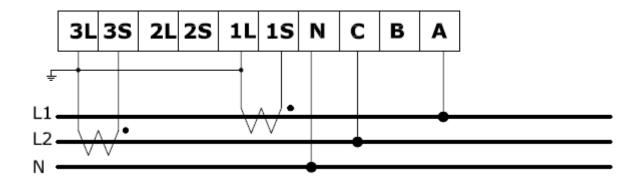


3.2 Wiring diagram

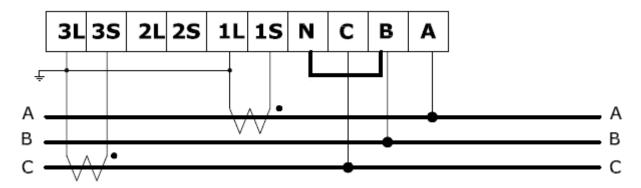
3.2.1 1P2W/1CT



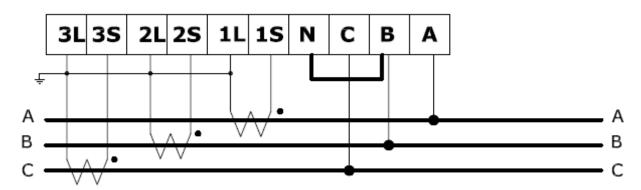
3.2.2 1P3W/2CT



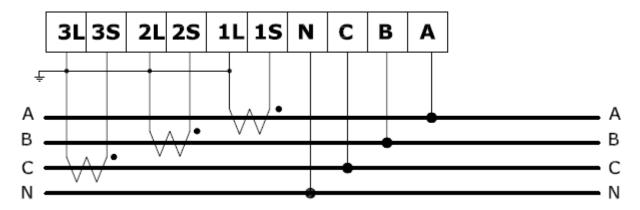
3.2.3 3P3W/2CT



3.2.4 3P3W/3CT



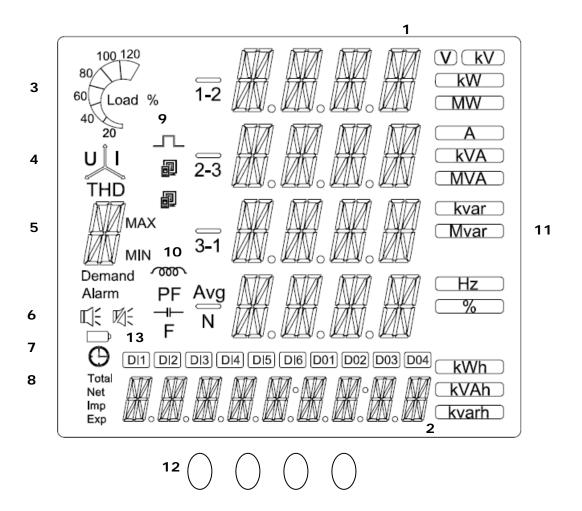
3.2.5 3P4W/3CT



Chapter 4 Operation & Setting

4.1 Display

The SPM-3 is equipped with a large back-lit LCD and 4 function buttons. It shows up to five measurements simultaneously.



Item	Display Content
1	Values, for V,I,KWDemand, eligibility rate and unbalance rate
2	Values, for energy & time
3	Load percentages
4	Unbalance rate indicator
5	Types of measurement (I,U,E,P)
6	Alarm buzzer on/off
7	Indicator for time display in zone 2
8	Indicator for energy display in zone 2
9	Indicator for pulse output and communication
10	Display for power factor and load characteristics
11	Units for measurements
12	Function Buttons, "M" "P" "E/T" "V/A"
13	DO1, DO2 Status

^{***}THD · DI · DO3 · DO4 : To be available in near future

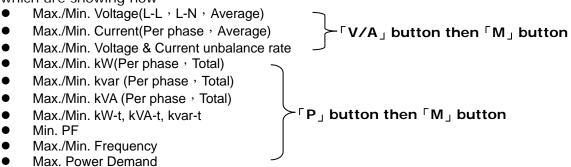
4.2 Operation

The SPM-3 equipped with function buttons to easily view all values and modify device setting. From left to right, there are $\lceil M \rfloor \lceil P \rfloor \lceil E/T \rfloor$ and $\lceil V/A \rfloor$ respectively.

- Button 「M」 to display maximum and minimum values
- Button 「P」 to display power for each phase and total, power factor (PF), frequency (F) and power demand.
- Button 「E/T」 to display Energy RTC and running hour
- Button 「V/A」 to display Voltage and Current

4.2.1 「M」Button

Press successively to present the maximum minimum and average values of present measure parameters. For example, if SPM-3 is currently display "Voltage" with "U" shown on the left middle of the screen, press "M" Button will show the Max./Min. and average values of Voltages. The following lists all the values that can be shown for Max./Min. and average values depending on the display parameters which are showing now



4.2.2 「P」Button

 $\lceil P \rfloor$ Button is for power selection. Press $\lceil P \rfloor$ Button successively to obtain:

- Active power (P) per phase and total
- Reactive power (Q) per phase and total
- Apparent power (S) per phase and total
- Total active power (P), reactive power (Q), apparent power (S) and power factor (PF)
- Total active power (P), reactive power (Q), apparent power (S) and frequency(F)
- Previous power demand kW, , demand subinterval remain time (sec) and current power demand kW

4.2.3 「E/T」Button

 $\lceil E/T \rfloor$ Button is for Energy & Time. Press $\lceil E/T \rfloor$ successively to obtain the following values in the zone 8 (bottom lane of the screen)

- Total active energy (kWh-t)
- Total reactive energy (kvarh-t)
- Total apprerant energy (kVAh-t)
- Total meter running hours (Total)
- Total meter running hours with load (Net)
- Year-Month-Day
- Hr-Min-Sec.

4.2.4 「V/A | button

「V/A」 button is for showing the Voltage and Current. Press button successively to obtain

- Phase to phase voltages and average (U)
- Phase to neutral voltages and average (U)
- Instantaneous current (I)
- Unbalance rate for voltages and current
- Voltage eligibility rate

4.3 Setting My Py E/T and V/A

To enter setting mode, press $\lceil M \rfloor$ and $\lceil V/A \rfloor$ buttons simultaneously. The setting mode is used for basic operation, clear informal data and alarms setting

- 「M」 to move cursor right ward like 「→」
- $\lceil P \rfloor$ to move the cursor down ward like $\lceil \Psi \rfloor$ or $\lceil \text{reduce one} \rfloor$
- 「E/T」 to move the cursor up ward like「↑」 or 「add one」
- 「V/A」 to confirm the selection like 「Enter」, and turn to next page
- 「M | and 「V/A | together to move back like 「ESC | or back to operation display

First, to press $\lceil M \rfloor$ a $\lceil V/A \rfloor$ simultaneously to enter password entering page, it required 4 digits (default is 0000).

PASS

WORD

0000

Then, select the setting from $\lceil BASIC \rfloor$, $\lceil ALARM + I/O \rfloor$, $\lceil CLEAR \rfloor$ by used $\lceil P \rfloor$ or $\lceil E/T \rfloor$

P0

MAIN

MENU

BASIC / ALARM+I/O / CLEAR

4.3.1 General Setting (N)

N1: Address Setting from 1-255 (Default 15)

N1

Add

015

N2: BAUD RATE Setting - 4800, 9600, 19200, 38400, 57600. (Default 19200)

N2

BAUD

RATE 19200

N3: STOP BIT Setting - "1" or "2" (Default 1)

N3

STOP

BIT

1

N4: Wire Type Setting -1P2W , 1P3W , 3P3W-2CT , 3P3W-3CT , 3P4W-Y , AUTO (Default AUTO)

N4

WIRE

TYPE

3P4W

N5: PT Primary Setting from 60-600000 (Default 110)

N5

PT1

000110

N6: PT2 Secondary Setting from 1-600 (Default 110)

N6

PT2

110

```
N7: CT Primary Setting from 1-500 (Default 1)
N7
CT1
000
1
N8: CT Secondary Setting from 1-5 (Default 1)
N8
CT2
1
N9: BACK LIGHT TIME OUT Setting from 0-120 minutes (Default 1) .
    If 0 is chosen, the back light will be always ON. Enter any key to turn on back light.
N9
BACK
LIT
120
N10: BACK LIGHT LEVEL Setting from 0-4 (Default 3).
     If 0 is chosen, the back light will be always OFF.
N10
BACK
LIT
LVL
3
N11: I-1 Current Direction Setting - "Positive" or "Negative". (Default POSITIVE).
     If the current is connected in wrong direction, select "Negative" to correct the display
     value.
N11
I-1
POSITIV E
N12: I-2 Current Direction setting - "Positive" or "Negative". (Default POSITIVE).
     If the current is connected in wrong direction, select "Negative" to correct the display
     value.
N12
1-2
POSITIVE
N13: I-3 Current Direction setting - "Positive" or "Negative". (Default POSITIVE).
     If the current is connected in wrong direction, select "Negative" to correct the display
     value.
N13
I-3
POSITIVE
N14: V1(V12) Voltage Eligibility Rate Up Limit Setting from 0-65535 (Scale 0.1, refer to
   Secondary) (Default 65535)
N14
U1
UP
LMT
65535
N15: V1(V12) Voltage Eligibility Rate Low Limit Setting from 0-65535 (Scale 0.1, refer to
     Secondary) (Default 0)
N15
U1
LOW
```

```
LMT
00000
N16: V2(V23) Voltage Eligibility Rate Up Limit Setting from 0-65535 (Scale 0.1, refer to
   Secondary) (Default 65535)
N16
U2
UP
LMT
65535
N17: V2 (V23) Voltage Eligibility Rate Low Limit Setting from 0-65535 (Scale 0.1, refer to
   Secondary) (Default 0)
N17
U2
LOW
LMT
00000
N18: V3 (V31) Voltage Eligibility Rate Up Limit Setting from 0-65535 (Scale 0.1, refer to
   Secondary) (Default 65535)
N18
U3
UP
LMT
65535
N19: V3 (V31) Voltage Eligibility Rate Low Limit Setting from 0-65535 (Scale 0.1, refer to
   Secondary) (Default 0)
N19
U3
LOW
LMT
00000
N20: Demand Mode Setting - 「BLOCK」 or 「ROLLING」 (Default BLOCK)
N20
DMD
MODE
BLOCK
N21: Sub-Interval Number Setting - 1,2,3,4,5,6,10, only used for "Rolling Mode"
     (Default 1)
N21
SUB
INTV
NUM
N22: Sub-Interval Length (Time) Setting - 1,2,3,4,5,6,10,12,15,30,60 min. (Default 15)
N22
SUB
INTV
LENG
15
N23: Date Setting
N23
DATE
2009.02.20
```

N24: Time Setting N24 TIME 00:00:00 N25: Password Setting-four digits from 0000-FFFF (Default 0000) N25 **PASS** WORD 0000 4.3.2 Clear Setting (C) C1: Energy Reset - Yes or No C1 **ENRG RST** NO C2: Reset All - Yes or No **RST ALL** NO C3: Reset OF Total Meter Run Hour - Yes or No C3 **RST** R-HR TOT NO C4: Reset OF Net Load Run Hour - Yes or No C4 **RST** R-HR **NET** NO C5: Demand Reset - Yes or No C5 **RST DMD** NO C6: Reset of Max and Min values - Yes or No C6 **RST** MAX MIN NO C7: Reset to Default - Yes or No C7 **RST DEFT** NO

```
C8: Reset Voltage Eligibility Rate – Yes or No
RST
VER
NO
4.3.3 Alarm Setting (A)
A1: Enable Alarm - On or Off (Default OFF)
Α1
ALRM
OFF
A2: Enable Buzzer - On or Off (Default OFF)
BUZZ
OFF
A3: DO1 can be assigned as the alarm output, and can be selected from \( \text{None} \) \( \text{None} \) \( \text{None} \)
V_{J}, Over I_{J}, Over F_{J}, Over I_{J}, Under I_{J}, Under I_{J}, Under I_{J}
А3
DO1
ALRM
NONE
A4: DO2 can be assigned to output 「PULSE」 or 「ALARM」 (Default PULSE)
DO2
OUT
PUT
PULSE /ALARM
A5: If DO2 is assigned to 「ALARM」, then select from 「None」、「Any」、「Over V」、「Over I」、
「Over F」、「Over Dmd」、「Over V」、「Under I」、「Under F」 (Default None)
Α5
DO2
ALRM
NONE
A6: If DO2 is assigned to PULSE, then select from NONE rkWh rkvarh kVAh (Default
NONE)
A6
PULS
OUT
PUT
NONE
A7: If DO2 is assigned to 「PULSE」, pulse rate can be 1 to 100, 1 stand for 1 wh/pulse
(Default 1)
Α7
kh
0001
A8: Over Voltage Alarm - 「ENABLE」 or 「DISABLE」 (Default DISABLE)
Α8
OVER
DISABLE
```

```
A9: Over Current Alarm - FENABLE or FDISABLE (Default DISABLE)
OVER
DISABLE
A10: Over Frequency Alarm - FENABLE or FDISABLE (Default DISABLE)
OVER
FREQ
DISABLE
A11: Over Demand Alarm – 「ENABLE」 or 「DISABLE」 (Default DISABLE)
A11
OVER
DMD
DISABLE
A12: Under Voltage Alarm - FNABLE or FDISABLE (Default DISABLE)
A12
UNDE
DISABLE
A13: Under Current Alarm – 「ENABLE」 or 「DISABLE」 (Default DISABLE)
A13
UNDE
DISABLE
A14: Under Frequency Alarm – 「ENABLE」 or 「DISABLE」 (Default DISABLE)
UNDE
FREQ
DISABLE
A15: Over Voltage Alarm Setting from 0-600000 (Default 600000)
A15
OVER
SET
600000
A16: Over Voltage Alarm Condition Clear Setting from 0-600000 (Default 0)
A16
OVER
٧
CLR
0000000
A17: Over Current Alarm Setting from 0-9999 (Default 9999)
A17
OVER
SET
9999
```

```
A18: Over Current Alarm Condition Clear Setting from 0-9999 (Default 0)
A18
OVER
CLR
0000
A19: Over Frequency Alarm Setting from 45-65 (Default 65)
A19
OVER
FREQ
SET
63
A20: Over Frequency Alarm Condition Clear Setting from 45-65 (Default 45)
OVER
FREQ
CLR
43
A21: Over Demand Alarm Setting from 0-65535 kW (Default 65535)
OVER
DMD
SET
65535
A22: Over Demand Alarm Condition Clear Setting from 0-65535 kW (Default 0)
A22
OVER
DMD
CLR
00000
A23: Under Voltage Alarm Setting from 0-600000 (Default 0)
A23
UNDE
V
SET
000000
A24: Under Voltage Alarm Condition Clear Setting from 0-600000 (Default 600000)
A24
UNDE
V
CLR
600000
A25: Under Current Alarm Setting from 0-9999 (Default 0)
A25
UNDE
SET
0000
A26: Under Current Alarm Condition Clear Setting from 0-9999 (Default 9999)
A26
UNDE
CLR
9999
```

A27: Under Frequency Alarm Setting from 45-65 (Default 45) A27 UNDE FREQ SET 45

A28: Under Frequency Alarm Condition Clear Setting from 45-65 (Default 65)
A28
UNDE

FREQ

CLR

65

Chapter 5 Communication

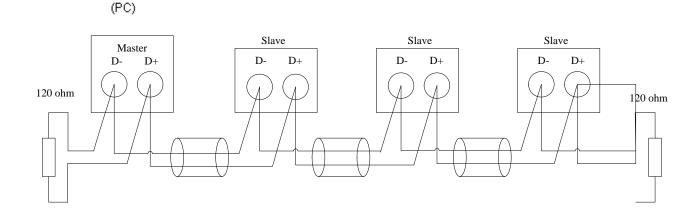
5.1 RS485

5.1.1 RS485 standard

PARAMETERS	
Mode of Operation	Differential
Number of Drivers and Receives	32 Drivers / 32 Receivers
Maximum cable length(meters)	1200
Maximum data rate (baud)	10M
Maximum common mode voltage (Volts)	12 to -7
Maximum Driver Output Levels (Loaded)	+/- 1.5
Maximum Driver Output Levels (Unloaded)	+/- 6
Drive Load (Ohms)	60(min)
Driver Output short circuit Resistance (kohms)	150 to Gnd, 250 to -7 or 12V
Minimum receiver input Resistance (kohms)	12
Receiver sensitivity	+/- 200mv

5.1.2 Wiring for instruments communication

RS485communication must used twisted paired wire, as show in the following program. "D+" connect to one wire and "D-" to the other one



Cautions:

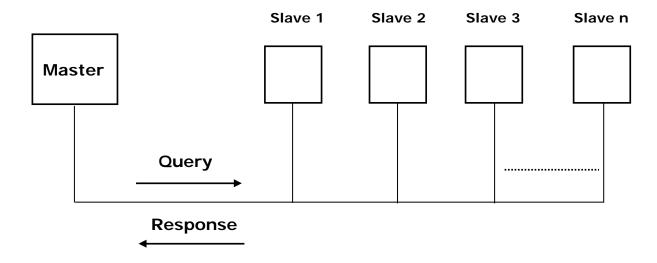
There must be no more than two wires connected to each terminal, this ensures that a "Daisy Chain" or "Straight Line" configuration is used. A "star" or a network with "Stubs(Tees)" is not recommended as reflections within the cable may result in data corruption \circ

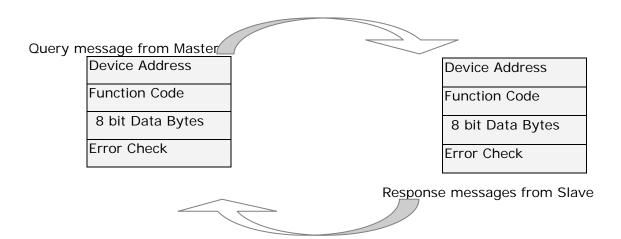
5.2 Modbus

In the start of modus communication, master will issue a "Query" to the slave. Every slave will monitor the "Query" address, so as to "execute' or give "response" when the address is right

5.2.1 Modbus Format

The Query-Response Cycle





5.3 Communication protocol

SPM-3 use Modus RTU as the communication protocol. The following shows Query and Response format.

Query:

Slave	Function	Start	Start	Number	Number	Error	Error
Address	Code	Address	Address	of Points	of Points	Check	Check
	0x03,	(Hi)	(Lo)	(Hi)	(Lo)	(Lo)	(Hi)
	0x04						

Response:

Slave	Function	Byte	Data	Data	Error	Error
Address	Code	Count	(Hi)	(Lo)	Check	Check
	0x03,				(Lo)	(Hi)
	0x04					

Query:

S	lave	Functio	Start	Start	Number	Number	Byte	Data	Data	Error	Error
A	ddres	n Code	Addres	Address	of	of	Count	(Hi)	(Lo)	Check	Check
S		0x10	s (Hi)	(Lo)	Points	Points				(Lo)	(Hi)
					(Hi)	(Lo)					

Response:

Slave	Function	Start	Start	Number	Number	Error	Error
Address	Code	Address	Address	of Points	of Points	Check	Check
	0x10	(Hi)	(Lo)	(Hi)	(Lo)	(Lo)	(Hi)

5.4 IEEE 754 Format

The bits in an IEEE 754 format have the following significance:

Data Hi Word,	Data Hi Word,	Data Lo Word,	Data Lo Word,
Hi Byte	Lo Byte	Hi Byte	Lo Byte
SEEE EEEE	EMMM MMMM	MMMM MMMM	MMMM MMMM

Where:

S represents the sign bit where 1 is negative and 0 is positive

E is the two's complement exponent with an offset of 127, i.e. an exponent of zero is represented by 127, an exponent of 1 by 128 etc.

M is the 23-bit normal mantissa. The highest bit is always 1 and, therefore, is not stored.

For each floating point value requested two Modbus registers or points (four bytes) must be requested. The received order and significance of these four bytes for the Integral products is shown below:

Data Lo Word,	Data Lo Word,	Data Hi Word,	Data Hi Word,
Hi Byte	Lo Byte	Hi Byte	Lo Byte

5.5 Modbus RTU Mode

Since Controllers can be setup to communicate on standard Modbus networks using either of two transmission modes: **ASCII** or **RTU**. SPM-3 uses RTU transmission mode only. Users select the RTU mode, along with the serial port communication parameters (baud rate, parity mode, etc.), during configuration of each controller. The mode and serial parameters must be the same for all devices on a Modbus connection.

RTU Mode

Coding System	8-bit binary, hexadecimal 0-9, A-F Two hexadecimal character contained in each 8-bit field of the message
Bits per Byte	1 start bit 8 data bits, least significant bit sent first none parity 1/2 stop bit
Error Check Field	Cyclical Redundancy Check(CRC)

5.6 Modbus Function Code

The function code of a Modbus message defines the action to be taken by the slave.

Function code use by SPM-3 is described below:

Code	Modbus name	Description
03	Read Holding Registers	Read the content of read/write location (4X reference)
04	Read Input Registers	Read the contents of read only location (3X reference)
16	Pre-set Multiple	Set the contents of read/write location (4X reference)
	Registers	

Note: The maximum registers of Function 03 & Function 04 is 125

5.7 SPM-3 Parameter

No.	Туре		Content	No. of points	R/W
1	Coil	0x0000~0x0001	Digital Output	2	R/W
2	Holding Register	0x1000~0x1001	Digital Output	2	R/W
3	Holding Register	0x1002~0x1040	Setup Parameter	63	R/W
4	Holding Register	0x1200~0x1207	Clear Function	8	W
5	Input Register	0x0000~0x000C	Realtime Data (Integer) – partial	14	R
6	Input Register	0x1000~0x0019	Realtime Data V, I, Frequency	26	R
7	Input Register	0x101A~0x1033	Realtime Data Power Result	26	R
8	Input Register	0x1034~0x1039	Energy	6	R
9	Input Register	0x103A~0x103E	Demand	5	R
10	Input Register	0x103F~0x1042	Unbalance Rate	4	R
11	Input Register	0x1043~0x1052	Voltage Eligibility Rate	16	R
12	Input Register	0x1053~0x1056	Running Hour	4	R
13	Input Register	0x1057	Alarm Flag	1	R
14	Input Register	0x1200~0x13BF	Max/Min (value & time)	448	R

Modbus Module #1 Coil Status : Digital Output

Parameter name	Modbus Register	Comment
Digital Output 1	00000	for function code 01: Read Coil Status & 05: Force Single Coil
Digital Output 2	00001	for function code 01: Read Coil Status & 05: Force Single Coil

Modbus Module #2 Holding Register : Digital Output

Doromator nama	Modbus Register		Lon	Data	Danga	Default	Units	Commont
Parameter name	Modicom Format	Hex	Len	Туре	Range	value	UIIIIS	Comment
Digital Output	44097	0x1000	Word	UInt	bit 0 : Digital Output 1 bit 1 : Digital Output 2	0		
Digital_Output_Reserved	44098	0x1001	Word	UInt				

Modbus Module #3 Holding Register : Setup Parameter

Parameter name	Modbus F	Register	Len	Data	Range	Default	Units	Comment
rarameter name	Modicom Format	Hex	LCIT	Type	Kange	value	Offics	Comment
Comm_485_Address	44099	0x1002	Word	UInt	1-255	15		
Comm_485_BaudRate	44100	0x1003	Word	UInt	0: 4800, 1: 9600 , 2: 19200, 3:38400 4: 57600	2	bps	
Comm_485_StopBit	44101	0x1004	Word	UInt	0:1 Stop bit, 1:2 Stop bit	0		
Wiring_Mode	44102	0x1005	Word	UInt	0:1P2W, 1:1P3W, 2:3P3W-2CT, 3:3P3W-3CT, 4:3P4W-Y 5:Auto	5		
PT_Primary	44103- 44104	0x1006- 0x1007	DWord	UInt32	60-600000	110	Volt	
PT_Secondary	44105	0x1008	Word	UInt	1-600	110	Volt	
CT_Primary	44106	0x1009	Word	UInt	1-5000	1	Amp.	
CT_Secondary	44107	0x100A	Word	UInt	1-5	1	Amp.	
Back_Light_Timeout	44108	0x100B	Word	UInt	0-120	1	min	
Brightnesst	44109	0x100C	Word	UInt	0-4	3		
I1_Flow	44110	0x100D	Word	UInt	0: Positive 1: Negative	0		

					0: Positive			
I2_Flow	44111	0x100E	Word	UInt	1: Negative	0		
13_Flow	44112	0x100F	Word	UInt	0: Positive 1: Negative	0		
V1_Up_Limit	44113	0x1010	Word	UInt	0-65535	65535	0.1V	Secondary
V1_Low_Limit	44114	0x1011	Word	UInt	0-65535	0	0.1V	Secondary
V2_Up_Limit	44115	0x1012	Word	UInt	0-65535	65535	0.1V	Secondary
V2_Low_Limit	44116	0x1013	Word	UInt	0-65535	0	0.1V	Secondary
V3_Up_Limit	44117	0x1014	Word	UInt	0-65535	65535	0.1V	Secondary
V3_Low_Limit Demand mode	44118 44119	0x1015 0x1016	Word Word	UInt UInt	0-65535 0:Block, 1:Rolling	0	0.1V	Secondary
Number_of_Subinterval	44119	0x1010	Word	UInt	1,2,3,4,5,6,10	1		
Subinterval_ Length	44121	0x1018	Word	UInt	1,2,3,4,5,6,10,12,	15	min	
Year	44122	0x1019	Word	BCD	15,20,30,60			
Month	44123	0x1019	Word	BCD				
Date	44124	0x101A	Word	BCD				
Hour	44125	0x101C	Word	BCD				
Min	44126	0x101D	Word	BCD				
Second	44127	0x101E	Word	BCD				
Password	44128	0x101F	Word	UInt	0x0000-0xFFFF	0x0000		
Alarm_Enable	44129	0x1020	Word	UInt	0:OFF, 1:ON	0		
Buzzer_Enable	44130	0x1021	Word	UInt	0: OFF, 1: ON 0: None	0		
DO1_Alarm_Item	44131	0x1022	Word	UInt	1:Any 2:Over Voltage 3:Over Current 4:Over Frequency 5:Over Demand 6:Under Voltage 7:Under Current 8:Under Frequency	0		
DO2_Function	44132	0x1023	Word	UInt	0: Pulse Output 1: Alarm Output	0		
DO2_Alarm_Item	44133	0x1024	Word	UInt	0: None 1: Any 2: Over Voltage 3: Over Current 4: Over Frequency 5: Over Demand 6: Under Voltage 7: Under Current 8: Under Frequency	0		
DO2_Pulse_Item	44134	0x1025	Word	UInt	0:None, 1:kWh 2:kvarh, 3:kVAh	0		
DO2_Pulse_kh	44135	0x1026	Word	UInt	1-100	1	Wh	
Over_Voltage_Enable	44136	0x1027	Word	UInt	0: Disable 1: Enable	0		
Over_Current_Enable	44137	0x1028	Word	UInt	0: Disable	0		
Over_Frequency_Enable	44138	0x1029	Word	UInt	1: Enable 0: Disable	0		
					1: Enable 0: Disable			
Over_Demand_Enable	44139	0x102A	Word	UInt	1: Enable	0		
Under_Voltage_Enable	44140	0x102B	Word	UInt	0: Disable 1: Enable	0		
Under_Current_Enable	44141	0x102C	Word	UInt	0: Disable 1: Enable	0		
Under_Frequency_Enable	44142	0x102D	Word	UInt	0: Disable 1: Enable	0		
Over_Voltage_Set_Point	44143- 44144	0x102E- 0x102F	DWord	UInt32	0-600000	600000	Volt	
Over_Voltage_Clear_Poin	44145-	0x1030-	DWord	UInt32	0-600000	0	Volt	
t Over_Current_Set_Point	44146 44147	0x1031 0x1032	Word	UInt	0-9999	9999	Amp	
Over_Current_Clear_Poin							•	
t	44148	0x1033	Word	UInt	0-9999	0	Amp	
Over_Frquency_Set_Poin	44149	0x1034	Word	UInt	45-65	65	Hz	
Over_Frequency_Clear_P								

Over_Demand_Set_Point	44151	0x1036	Word	UInt	0-65535	65535	kW	
Over_Demand_Clear_Point	44152	0x1037	Word	UInt	0-65535	0	kW	
Under_Voltage_Set_Point	44153- 44154	0x1038- 0x1039	DWord	UInt32	0-600000	0	Volt	
Under_Voltage_Clear_Point	44155- 44156	0x103A- 0x103B	DWord	UInt32t	0-600000	600000	Volt	
Under_Current_Set_Point	44157	0x103C	Word	UInt	0-9999	0	Amp	
Under_Current_Clear_Point	44158	0x103D	Word	UInt	0-9999	9999	Amp	
Under_Frquency_Set_Point	44159	0x103E	Word	UInt	45-65	45	Hz	
Under_Frequency_Clear_ Point	44160	0x103F	Word	UInt	45-65	65	Hz	
FWVersion	44161	0x1040	Word	UInt				read only

Modbus Module #4 Holding Register : Clear Function

Parameter name	Modbus Register		Lon	Data	Range	Default	Units	Comment
	Modicom Format	Hex	Len	Type	Range	value	Offics	Comment
Reset_Energy	44609	0x1200	Word	UInt	0x5aa5	0		0x5aa5: clear
Reset_All	44610	0x1201	Word	Uint	0x5aa5	0		0x5aa5: clear
Reset_Meter_Running _Hour	44611	0x1202	Word	Uint	0x5aa5	0		0x5aa5: clear
Reset_Load_Running _Hour	44612	0x1203	Word	Uint	0x5aa5	0		0x5aa5: clear
Demand_Reset	44613	0x1204	Word	UInt	0x5aa5	0		0x5aa5: clear
Period_Reset	44614	0x1205	Word	Uint	0x5aa5	0		0x5aa5: clear
Reset_To_Default	44615	0x1206	Word	Uint	0x5aa5	0		0x5aa5: clear
Reset_Voltage_Eligibility	44616	0x1207	Word	Uint	0x5aa5	0		0x5aa5: clear

Modbus Module #5 Input Register : Realtime Data (Integer)

Woodbas Woodale II	<u> </u>	09.010	<u></u>	<u> </u>				
Donomoston money		Register	Lan	Data	Dames	l linite	0	
Parameter name	Modicom Format	Hex	Len	Туре	Range	Units	Comment	
R(R-S) voltage	30001	0x0000	Word	UInt	0-65535	0.1 Volt	0-6553.5V	
S(S-T) voltage	30002	0x0001	Word	UInt	0-65535	0.1 Volt	0-6553.5V	
T(T-R) voltage	30003	0x0002	Word	UInt	0-65535	0.1 Volt	0-6553.5V	
R current	30004	0x0003	Word	UInt	0-65535	0.1A	0-6553.5A	
S current	30005	0x0004	Word	UInt	0-65535	0.1A	0-6553.5A	
T current	30006	0x0005	Word	UInt	0-65535	0.1A	0-6553.5A	
Frequency	30007	0x0006	Word	UInt	0-999	0.1Hz	0-99.9Hz	
PF.	30008	0x0007	Word	Int	-1000~+1000	0.001Pf	-1.000~1.000	
kW	30009	8000x0	Word	UInt	0-65535	0.1kW	0-6553.5kW	
kvar	30010	0x0009	Word	UInt	0-65535	0.1kvar	0-6553.5kvar	
kWH	30011- 30012	0x0009- 0x000A	DWord	UInt32	0-99999999	0.1kWh	0-99999999.9	
kVArh	30013- 30014	0x000B- 0x000C	DWord	UInt32	0-99999999	0.1kvarh	0-99999999.9	

Modbus Module #6 Input Register: Realtime Data Voltage, Current, Frequency (Float)

Widdbas Widaalc //	o mpat it	og.o.o	tourtime	Data V	ortuge, currer	,	rioj (riout)
Parameter name	Modbus Register Modicom Hex		Len	Data Type	Range	Units	Comment
	Format	TICX		1900			
VIn a	34097-	0x1000-	DWord	Float		Volt	Primary
VIII_8	34098	0x1001	DWord	rioat		VOIL	i i i i i i i
VIn b	34099-	0x1002-	DWord	Float		Volt	Primary
VIII_D	34100	0x1003	DVVOIG	rioat		VOIL	Fililialy
VIn_c	34101-	0x1004-	DWord	Float		Volt	Primary
VIII_C	34102	0x1005	DWord	riuat		VOIL	Primary
VIn avg	34103-	0x1006-	DWord	Float		Volt	Primary
viii_avg	34104	0x1007	DWord	riuat		VOIL	Primary
VII ab	34105-	0x1008-	DWord	Float		Volt	Primary
VII_dD	34106	0x1009	DWOIG	rioat		VOIL	Primary

VII_bc	34107- 34108	0x100A- 0x100B	DWord	Float	Volt	Primary
VII_ca	34109- 34110	0x100C- 0x100D	DWord	Float	Volt	Primary
VII_avg	34111- 34112	0x100E- 0x100F	DWord	Float	Volt	Primary
I_a	34113- 34114	0x1010- 0x1011	DWord	Float	Amp.	Primary
I_b	34115- 34116	0x1012- 0x1013	DWord	Float	Amp.	Primary
I_c	34117- 34118	0x1014- 0x1015	DWord	Float	Amp.	Primary
I_avg	34119- 34120	0x1016- 0x1017	DWord	Float	Amp.	Primary
Frequency	34121- 34122	0x1018- 0x1019	DWord	Float	Hz	

Modbus Module #7 Input Register : Realtime Data Power Result (Float)

Wiodbus Wiodule #			Cartinio	- Data i c	Tres Result (louty	
		Register	1	Data			
Parameter name	Modicom	Hex	Len	Type	Range	Units	Comment
	Format	пех		Туре			
1414/	34123-	0x101A-	DWord	Float		kW	Drimory
kW_a	34124	0x101B	DWord	Float		KVV	Primary
kW_b	34125-	0x101C-	DWord	Float		kW	Primary
KVV_D	34126	0x101D	DWord	riuat		KVV	Primary
kW_c	34127-	0x101E-	DWord	Float		kW	Primary
KVV_C	34128	0x101F	DWord	Float		KVV	Primary
kW_tot	34129-	0x1020-	DWord	Float		kW	Primary
KVV_tOt	34130	0x1021	DWord	Float		KVV	Primary
kvar a	34131-	0x1022-	DWord	Float		kvar	Primary
kvai_a	34132	0x1023	DWord	Float		Kvai	Filitially
kvar_b	34133-	0x1024-	DWord	Float		kvar	Primary
KVai_b	34134	0x1025	DWord	rioat		Kvai	Filliary
kvar_c	34135-	0x1026-	DWord	Float		kvar	Primary
Kvai_c	34136	0x1027	DWord	rioat		Kvai	riiiiai y
kvar_tot	34137-	0x1028-	DWord	Float		kvar	Primary
Kvai_tot	34138	0x1029	DWord	rioat		Kvai	riiiiai y
kVA_a	34139-	0x102A-	DWord	Float		kVA	Primary
KVA_d	34140	0x102B	DWord	rioat		NVA	riiiiai y
kVA b	34141-	0x102C-	DWord	Float		kVA	Primary
KVA_D	34142	0x102D	DWord	rioat		KVA	1 Tillial y
kVA c	34143-	0x102E-	DWord	Float		kVA	Primary
KVA_C	34144	0x102F	DVVOIG	rioat		NVA	i i ii ii ai y
kVA_tot	34145-	0x1030-	DWord	Float		kVA	Primary
KVA_tot	34146	0x1031	DVVOIG	rioat		NVA	i i ii ii ai y
PF	34147-	0x1032-	DWord	Float			
	34148	0x1033	DVVOIG	rioat			

Modbus Module #8 Input Register : Energy (Float)

	Modbus Register			Data			
Parameter name	Modicom Format	Hex	Len	Туре	Range	Units	Comment
kWh	34149- 34150	0x1034- 0x1035	DWord	Float			
kvarh	34151- 34152	0x1036- 0x1037	DWord	Float			
kVAh	34153- 34154	0x1038- 0x1039	DWord	Float			

Modbus Module #9 Input Register: Realtime data Demand

	Modbus Register			D-4-			
Parameter name	Modicom Format	Hex	Len	Data Type	Range	Units	Comment
Demand_kW_Pre_Period	34155- 34156	0x103A- 0x103B	DWord	Float		kW	Primary
Demand_kW	34157- 34158	0x103C- 0x103D	DWord	Float		kW	Primary
Demand_Remain_Time	34159	0x103E	Word	UInt		sec	

Modbus Module #10 Input Register : Unbalance Rate

	Modbus Register			Data			
Parameter name	Modicom Format	Hex	Len	Туре	Range	Units	Comment
V_Unbalance_Rate	34160- 34161	0x103F- 0x1040	DWord	Float		%	
I_Unbalance_Rate	34162- 34163	0x1041- 0x1042	DWord	Float		%	

Modbus Module #11 Input Register: Voltage Eligibility Rate

Woodbus Woodle #	woodbus wodule # i i input kegistei :		voitage	Eligibili	ty Kate		
	Modbus	Register		Data			
Parameter name	Modicom Format	Hex	Len	Type	Range	Units	Comment
Va_Eligibility_Rate	34164- 34165	0x1043- 0x1044	DWord	Float		%	
Vb_Eligibility_Rate	34166- 34167	0x1045- 0x1046	DWord	Float		%	
Vc_Eligibility_Rate	34168- 34169	0x1047- 0x1048	DWord	Float		%	
Vavg_Eligibility_Rate	34170- 34171	0x1049- 0x104A	DWord	Float		%	
Va Eligible Running Hour	34172- 34173	0x104B- 0x104C	DWord	Uint32	0-360000000	sec	up to 100000 hr
Vb Eligible Running Hour	34174- 34175	0x104D- 0x104E	DWord	Uint32	0-360000000	sec	up to 100000 hr
Vc Eligible Running Hour	34176- 34177	0x104F- 0x1050	DWord	Uint32	0-360000000	sec	up to 100000 hr
V Eligible total check Running Hours	34178- 34179	0x1051- 0x1052	DWord	Uint32	0-360000000	sec	up to 100000 hr

Modbus Module #12 Input Register: Running Hour

	Modbus Register			Data			
Parameter name	Modicom Format	Hex	Len	Туре	Range	Units	Comment
Load Running Hour	34180- 34181	0x1053- 0x1054	DWord	Uint32	0-360000000	sec	up to 100000 hr
Meter Running Hour	34180- 34181	0x1055- 0x1056	DWord	Uint32	0-360000000	sec	up to 100000 hr

Modbus Module #13 Input Register : Alarm Flag

	Modbus	Register		Data			
Parameter name	Modicom Format	Hex	Len	Туре	Range	Units	Comment
Alarm Flag	34182	0x1057	Word	UInt	bit 0:Over Voltage 1:Over Current 2:Over Frequency 3:Over Demand 4:Under Voltage 5:Under Current 6:Under Frequency	bit	0 : Disable 1 : Enable

Modbus Module #14 Input Register: Max/Min Data

IVIOUDUS IVIOUUIE #	1 + IIIpat	itegistei .	IVIGAT IVII	II Data			
	Modbus Register			Data			
Parameter name	Modicom	Hex	Len	Type	Range	Units	Comment
	Format	TICX		.560			
Va max	34609-	0x1200-	DWord	Float		Volt	
va_iiiax	34610	0x1201	DVVOIG	rioat		VOIL	
Va_max_Year	34611	0x1202	Word	BCD	00-99		
Va_max_Month	34612	0x1203	Word	BCD	1-12		
Va_max_Date	34613	0x1204	Word	BCD	1-31		
Va_max_Hour	34614	0x1205	Word	BCD	0-23		
Va_max_Min	34615	0x1206	Word	BCD	0-59		
Va_max_Second	34616	0x1207	Word	BCD	0-59		
Va min	34617-	0x1208-	DWord	Float		Volt	
Va_IIIIII	34618	0x1209	Dvvoru	riuat		VOIL	
Va_min_Year	34619	0x120A	Word	BCD	00-99		
Va_min_Month	34620	0x120B	Word	BCD	1-12		
Va_min_Date	34621	0x120C	Word	BCD	1-31		

Va_min_Hour	34622	0x120D	Word	BCD	0-23		
Va_min_Min	34623	0x120E	Word	BCD	0-59		
Va_min_Second	34624	0x120F	Word	BCD	0-59		
Vb_max	34625-	0x1210-	DWord	Float		Volt	
	34626	0x1211				VOIL	
Vb_max_Year	34627	0x1212	Word	BCD	00-99		
Vb_max_Month	34628	0x1213	Word	BCD	1-12		
Vb_max_Date	34629	0x1214	Word	BCD	1-31		
Vb_max_Hour	34630 34631	0x1215	Word Word	BCD	0-23		
Vb_max_Min Vb_max_Second	34631	0x1216 0x1217	Word	BCD BCD	0-59 0-59		
	34633-	0x1217 0x1218-		ВСБ	0-39		
Vb_min	34634	0x1219	DWord	Float		Volt	
Vb_min_Year	34635	0x121A	Word	BCD	00-99		
Vb_min_Month	34636	0x121B	Word	BCD	1-12		
Vb_min_Date	34637	0x121C	Word	BCD	1-31		
Vb_min_Hour	34638	0x121D	Word	BCD	0-23		
Vb_min_Min	34639	0x121E	Word	BCD	0-59		
Vb_min_Second	34640	0x121F	Word	BCD	0-59		
Vc_max	34641-	0x1220-	DWord	Float		Volt	
	34642	0x1221			00.00	13	
Vc_max_Year	34643	0x1222	Word	BCD	00-99	+ +	
Vc_max_Month	34644	0x1223	Word	BCD	1-12	+	
Vc_max_Date Vc_max_Hour	34645 34646	0x1224 0x1225	Word Word	BCD BCD	1-31 0-23	+ +	
Vc_max_Hour Vc_max_Min	34646	0x1225 0x1226	Word	BCD	0-23		
Vc_max_Second	34648	0x1220 0x1227	Word	BCD	0-59		
	34649-	0x1228-			0-37		
Vc_min	34650	0x1229	DWord	Float		Volt	
Vc_min_Year	34651	0x122A	Word	BCD	00-99		
Vc_min_Month	34652	0x122B	Word	BCD	1-12		
Vc_min_Date	34653	0x122C	Word	BCD	1-31		
Vc_min_Hour	34654	0x122D	Word	BCD	0-23		
Vc_min_Min	34655	0x122E	Word	BCD	0-59		
Vc_min_Second	34656	0x122F	Word	BCD	0-59		
Vlnavg_max	34657-	0x1230-	DWord	Float		Volt	
	34658	0x1231			00.00		
Vlnavg_max_Year Vlnavg_max_Month	34659 34660	0x1232 0x1233	Word Word	BCD BCD	00-99 1-12		
Vinavg_max_worth	34661	0x1233 0x1234	Word	BCD	1-12		
Vinavg_max_bate Vinavg_max_Hour	34662	0x1234 0x1235	Word	BCD	0-23		
Vlnavg_max_Min	34663	0x1236	Word	BCD	0-59		
Vlnavg_max_Second	34664	0x1237	Word	BCD	0-59		
	34665-	0x1238-				N-14	
Vlnavg_min	34666	0x1239	DWord	Float		Volt	
Vlnavg_min_Year	34667	0x123A	Word	BCD	00-99		
VInavg_min_Month	34668	0x123B	Word	BCD	1-12		
Vlnavg_min_Date	34669	0x123C	Word	BCD	1-31		
Vlnavg_min_Hour	34670	0x123D	Word	BCD	0-23		
Vlnavg_min_Min	34671	0x123E	Word	BCD	0-59		
Vlnavg_min_Second	34672	0x123F	Word	BCD	0-59	+ +	
	34673-	0x1240-					
Vab_max	34673-	0x1240- 0x1241	DWord	Float		Volt	
Vab_max_Year	34675	0x1241 0x1242	Word	BCD	00-99	+ +	
Vab_max_Month	34676	0x1242	Word	BCD	1-12	1	
Vab_max_Date	34677	0x1244	Word	BCD	1-31		
Vab_max_Hour	34678	0x1245	Word	BCD	0-23	1	
Vab_max_Min	34679	0x1246	Word	BCD	0-59		
Vab_max_Second	34680	0x1247	Word	BCD	0-59		
Vab_min	34681-	0x1248-	DWord	Float		Volt	
	34682	0x1249				VOIL	
Vab_min_Year	34683	0x124A	Word	BCD	00-99		
Vab_min_Month	34684	0x124B	Word	BCD	1-12		
	7/1606	0x124C	Word	BCD	1-31		
Vab_min_Date	34685		\				
Vab_min_Hour	34686	0x124D	Word	BCD	0-23		
Vab_min_Hour Vab_min_Min	34686 34687	0x124D 0x124E	Word	BCD	0-59		
Vab_min_Hour	34686	0x124D					

What was Was a	24/01	01050	14/ 1	BOD	00.00		
V.bc_max_Year Vbc_max_Month	34691 34692	0x1252 0x1253	Word Word	BCD BCD	00-99 1-12		
Vbc_max_worth Vbc_max_Date	34693	0x1253	Word	BCD	1-12		
Vbc_max_bate Vbc max Hour	34694	0x1255	Word	BCD	0-23		
Vbc_max_Min	34695	0x1256	Word	BCD	0-59		
Vbc_max_Second	34696	0x1257	Word	BCD	0-59		
	34697-	0x1258-				37.11	
Vbc_min	34698	0x1259	DWord	Float		Volt	
Vbc_min_Year	34699	0x125A	Word	BCD	00-99		
Vbc_min_Month	34700	0x125B	Word	BCD	1-12		
Vbc_min_Date	34701	0x125C	Word	BCD	1-31		
Vbc_min_Hour	34702	0x125D	Word	BCD	0-23		
Vbc_min_Min	34703	0x125E	Word	BCD	0-59		
Vbc_min_Second	34704	0x125F	Word	BCD	0-59		
Vca_max	34705-	0x1260-	DWord	Float		Volt	
	34706	0x1261				1011	
Vca_max_Year	34707	0x1262	Word	BCD	00-99		
Vca_max_Month	34708	0x1263	Word	BCD	1-12		
Vca_max_Date	34709	0x1264	Word	BCD	1-31		
Vca_max_Hour	34710	0x1265	Word	BCD	0-23		
Vca_max_Min	34711	0x1266	Word	BCD	0-59		
Vca_max_Second	34712	0x1267	Word	BCD	0-59	+	
Vca_min	34713-	0x1268-	DWord	Float		Volt	
Manager Manager	34714	0x1269) (/ - ·	DOD	00.00		
Vca_min_Year	34715	0x126A	Word	BCD	00-99		
Vca_min_Month	34716	0x126B	Word	BCD	1-12	+	
Vca_min_Date	34717	0x126C	Word	BCD	1-31		
Vca_min_Hour	34718	0x126D	Word	BCD	0-23		
Vca_min_Min	34719	0x126E	Word	BCD	0-59	+	
Vca_min_Second	34720	0x126F	Word	BCD	0-59	+	
VIIavg_max	34721- 34722	0x1270- 0x1271	DWord	Float		Volt	
VIIavg_max_Year	34723	0x1271 0x1272	Word	BCD	00-99		
VIIavg_max_Month	34723	0x1272 0x1273	Word	BCD	1-12		
VIIavg_max_North VIIavg_max_Date	34725	0x1273	Word	BCD	1-31		
Vllavg_max_Hour	34726	0x1274 0x1275	Word	BCD	0-23		
VIIavg_max_nodi	34727	0x1275	Word	BCD	0-59		
VIIavg_max_Second	34728	0x1270	Word	BCD	0-59		
	34729-	0x1277			0 37	1	
VIIavg_min	34730	0x1279	DWord	Float		Volt	
VIIavg_min_Year	34731	0x127A	Word	BCD	00-99		
Vllavg_min_Month	34732	0x127B	Word	BCD	1-12		
Vllavg min Date	34733	0x127C	Word	BCD	1-31		
Vllavg_min_Hour	34734	0x127D	Word	BCD	0-23		
VIIavg_min_Min	34735	0x127E	Word	BCD	0-59		
Vllavg_min_Second	34736	0x127F	Word	BCD	0-59		
<u> </u>							
la manu	34737-	0x1280-	D) 4/- '	F1 1		A	
la_max	34738	0x1281	DWord	Float		Amp	
Ia_max_Year	34739	0x1282	Word	BCD	00-99		
Ia_max_Month	34740	0x1283	Word	BCD	1-12		
Ia_max_Date	34741	0x1284	Word	BCD	1-31		
la_max_Hour	34742	0x1285	Word	BCD	0-23		
Ia_max_Min	34743	0x1286	Word	BCD	0-59		
Ia_max_Second	34744	0x1287	Word	BCD	0-59		
la_min	34745-	0x1288-	DWord	Float		Amn	
	34746	0x1289				Amp	
la_min_Year	34747	0x128A	Word	BCD	00-99		
la_min_Month	34748	0x128B	Word	BCD	1-12		
Ia_min_Date	34749	0x128C	Word	BCD	1-31		
Ia_min_Hour	34750	0x128D	Word	BCD	0-23		
Ia_min_Min	34751	0x128E	Word	BCD	0-59		
Ia_min_Second		0x128F	Word	BCD	0-59		
Ta_mm_Second	34752				<u> </u>		<u>-</u>
	34753-	0x1290-		Float		Δmn	
lb_max	34753- 34754	0x1290- 0x1291	DWord	Float		Amp	
Ib_max Ib_max_Year	34753- 34754 34755	0x1290- 0x1291 0x1292	DWord Word	BCD	00-99	Amp	
Ib_max_ Ib_max_Year Ib_max_Month	34753- 34754 34755 34756	0x1290- 0x1291 0x1292 0x1293	DWord Word Word	BCD BCD	1-12	Amp	
Ib_max Ib_max_Year Ib_max_Month Ib_max_Date	34753- 34754 34755 34756 34757	0x1290- 0x1291 0x1292 0x1293 0x1294	DWord Word Word	BCD BCD BCD	1-12 1-31	Amp	
Ib_max_ Ib_max_Year Ib_max_Month	34753- 34754 34755 34756	0x1290- 0x1291 0x1292 0x1293	DWord Word Word	BCD BCD	1-12	Amp	

Ib_min	Ib_max_Second	34760	0x1297	Word	BCD	0-59		
10_min 34762 0x129A Word BCD 00-99						0-59		
Ib_min, Waer 34764 0x1298 Word 8CD 00-99	Ib_min			DWord	Float		Amp	
Ib. min. Date 34765 0x1290 Word 8CD 1-31	Ib_min_Year			Word	BCD	00-99		
Ib. min. Hour		34764			BCD	1-12		
Ib_min_Second		34766	0x129D		BCD	0-23		
Ic_max 34769								
	Ib_min_Second			Word	BCD	0-59		
1.	Ic max			DWord	Float		Amn	
Ic_max_Month	_						711110	
Ic_max_Date 34773								
Ic_max_Hour								
Ic_min								
Ic_min								
	rc_max_Second			vvora	RCD	0-59		
	Ic_min			DWord	Float		Amp	
	Ic min Vear			Word	BCD	00.00		
Ic., min. Date								
Ic., min, Hour							+ +	
							+ +	
Inc. Second 34784							+ +	
Iavg_max								
Tavg_max_Vear 34786						0-37	+	
Favg_max_Month	lavg_max			DWord	Float		Amp	
Bavg_max_Month	lavo max Year			Word	BCD	00-99		
Bayg max Date 34789								
Bayg_max_Min 34790								
lavg_max_Min								
Bavg_max_Second 34792								
Tavg_min								
Tavg_min_Year 34794						3 37		
Baug_min_ Year 34795	lavg_min			DWord	Float		Amp	
Bavg_min_Month	lavg_min_Year			Word	BCD	00-99		
Bavg_min_Date 34797				Word		1-12		
Bavg_min_Hour						1-31		
Ray_min_Second				Word	BCD			
kWa_max 34801- 34802 0x12C0- 0x12C1 DWord Float kWa_max_Year 34803 0x12C2 Word BCD 00-99 kWa_max_Month 34804 0x12C3 Word BCD 1-12 kWa_max_Date 34805 0x12C4 Word BCD 0-23 kWa_max_Hour 34806 0x12C5 Word BCD 0-23 kWa_max_Min 34807 0x12C6 Word BCD 0-59 kWa_max_Second 34808 0x12C7 Word BCD 0-59 kWa_min 34810 0x12C8- 0x12C9 DWord Float 00-99 kWa_min_Year 34811 0x12CA Word BCD 00-99 kWa_min_Date 34813 0x12CC Word BCD 1-12 kWa_min_Hour 34814 0x12CD Word BCD 0-23 kWa_min_Second 34815 0x12CF Word BCD 0-59 kWa_min_Second 34816 0x12CF Word <td>lavg_min_Min</td> <td>34799</td> <td>0x12BE</td> <td>Word</td> <td>BCD</td> <td>0-59</td> <td></td> <td></td>	lavg_min_Min	34799	0x12BE	Word	BCD	0-59		
kWa_max 34802 0x12C1 DWord Float kWa_max_Month 34803 0x12C2 Word BCD 00-99 kWa_max_Month 34804 0x12C3 Word BCD 1-12 kWa_max_Date 34805 0x12C4 Word BCD 1-31 kWa_max_Hour 34806 0x12C5 Word BCD 0-23 kWa_max_Min 34807 0x12C6 Word BCD 0-59 kWa_max_Second 34808 0x12C7 Word BCD 0-59 kWa_min 34809- 34810 0x12C8- 0x12C9 DWord BCD 0-59 kWa_min_Year 34811 0x12C8 Word BCD 0-59 kWa_min_Month 34812 0x12C8 Word BCD 1-12 kWa_min_Bote 34813 0x12CC Word BCD 1-31 kWa_min_Hour 34814 0x12CF Word BCD 0-59 kWa_min_Second 34815 0x12CF Word <t< td=""><td>Iavg_min_Second</td><td>34800</td><td>0x12BF</td><td>Word</td><td>BCD</td><td>0-59</td><td></td><td></td></t<>	Iavg_min_Second	34800	0x12BF	Word	BCD	0-59		
kWa_max 34802 0x12C1 DWord Float kWa_max_Month 34803 0x12C2 Word BCD 00-99 kWa_max_Month 34804 0x12C3 Word BCD 1-12 kWa_max_Date 34805 0x12C4 Word BCD 1-31 kWa_max_Hour 34806 0x12C5 Word BCD 0-23 kWa_max_Min 34807 0x12C6 Word BCD 0-59 kWa_max_Second 34808 0x12C7 Word BCD 0-59 kWa_min 34809- 34810 0x12C8- 0x12C9 DWord BCD 0-59 kWa_min_Year 34811 0x12C8 Word BCD 0-59 kWa_min_Month 34812 0x12C8 Word BCD 1-12 kWa_min_Bote 34813 0x12CC Word BCD 1-31 kWa_min_Hour 34814 0x12CF Word BCD 0-59 kWa_min_Second 34815 0x12CF Word <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
SARO	kWa may	34801-	0x12C0-	DWord	Float			
kWa_max_Month 34804 0x12C3 Word BCD 1-12 kWa_max_Date 34805 0x12C4 Word BCD 1-31 kWa_max_Hour 34806 0x12C5 Word BCD 0-23 kWa_max_Min 34807 0x12C6 Word BCD 0-59 kWa_max_Second 34808 0x12C7 Word BCD 0-59 kWa_min 34809- 0x12C8- DWord BCD 0-59 kWa_min 34810 0x12C9- DWord BCD 0-59 kWa_min_Year 34811 0x12CA Word BCD 00-99 kWa_min_Month 34812 0x12CB Word BCD 1-12 kWa_min_Date 34813 0x12CC Word BCD 0-23 kWa_min_Hour 34814 0x12CD Word BCD 0-59 kWa_min_Second 34816 0x12CF Word BCD 0-59 kWb_max_Month 34820 0x12D0 Word	KWa_IIIax	34802	0x12C1	Dvvoru	riuat			
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kWa_max_Hour 34806 0x12C5 Word BCD 0-23 kWa_max_Min 34807 0x12C6 Word BCD 0-59 kWa_max_Second 34809 0x12C7 Word BCD 0-59 kWa_min 34809- 34810 0x12C8- 0x12C9 DWord Float Float kWa_min_Year 34811 0x12CA Word BCD 00-99 kWa_min_Month 34812 0x12CB Word BCD 1-12 kWa_min_Date 34813 0x12CC Word BCD 1-31 kWa_min_Hour 34814 0x12CD Word BCD 0-23 kWa_min_Second 34815 0x12CF Word BCD 0-59 kWb_max 34817- 34818 0x12D0- 0x12D1 DWord Float DWord kWb_max_Year 34819 0x12D2 Word BCD 00-99 kWb_max_Boate 34821 0x12D4 Word BCD 1-12 kWb_max_Min 34822 0x12	kWa_max_Month	34804		Word	BCD	1-12		
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kWa_min_Month 34812 0x12CB Word BCD 1-12 kWa_min_Date 34813 0x12CC Word BCD 1-31 kWa_min_Hour 34814 0x12CD Word BCD 0-23 kWa_min_Min 34815 0x12CE Word BCD 0-59 kWa_min_Second 34816 0x12CF Word BCD 0-59 kWb_max 34817- 34818 0x12D1- 0x12D1 DWord Float 0x12D1 kWb_max_Year 34819 0x12D2 Word BCD 00-99 kWb_max_Month 34820 0x12D3 Word BCD 1-12 kWb_max_Date 34821 0x12D4 Word BCD 1-31 kWb_max_Hour 34822 0x12D5 Word BCD 0-23 kWb_max_Second 34824 0x12D7 Word BCD 0-59 kWb_min 34825- 34826 0x12D8- 0x12D9 DWord Float 0x-99								
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kWb_max_Date 34821 0x12D4 Word BCD 1-31 kWb_max_Hour 34822 0x12D5 Word BCD 0-23 kWb_max_Min 34823 0x12D6 Word BCD 0-59 kWb_max_Second 34824 0x12D7 Word BCD 0-59 kWb_min 34825- 34826 0x12D8- 0x12D9 DWord Float kWb_min_Year 34827 0x12DA Word BCD 00-99								
kWb_max_Hour 34822 0x12D5 Word BCD 0-23 kWb_max_Min 34823 0x12D6 Word BCD 0-59 kWb_max_Second 34824 0x12D7 Word BCD 0-59 kWb_min 34825- 34826 0x12D8- 0x12D9 DWord Float kWb_min_Year 34827 0x12DA Word BCD 00-99							+	-
kWb_max_Min 34823 0x12D6 Word BCD 0-59 kWb_max_Second 34824 0x12D7 Word BCD 0-59 kWb_min 34825- 34826 0x12D8- 0x12D9 DWord Float kWb_min_Year 34827 0x12DA Word BCD 00-99								
kWb_max_Second 34824 0x12D7 Word BCD 0-59 kWb_min 34825- 34826 0x12D8- 0x12D9 DWord Float Float kWb_min_Year 34827 0x12DA Word BCD 00-99							+	-
kWb_min 34825- 34826 0x12D8- 0x12D9 DWord Float kWb_min_Year 34827 0x12DA Word BCD 00-99							+	
kWb_min_Year 34826 0x12D9 DWord Float kWb_min_Year 34827 0x12DA Word BCD 00-99	NVVD_ITIAX_SECUITO			vvoi a	טכט	U-0 7	+	
kWb_min_Year 34827 0x12DA Word BCD 00-99	kWb_min			DWord	Float			
	kWh min Vear			Word	RCD.	UU-00	+ +	
	kWb_min_mean	34828	0x12DA 0x12DB	Word	BCD	1-12	+	

	_	T	1		1	1	T
kWb_min_Date	34829	0x12DC	Word	BCD	1-31		
kWb_min_Hour	34830	0x12DD	Word	BCD	0-23		
kWb_min_Min	34831	0x12DE	Word	BCD	0-59		
kWb_min_Second	34832	0x12DF	Word	BCD	0-59		
kWc_max	34833-	0x12E0-	DWord	Float			
KWC_IIIdX	34834	0x12E1	DWord	riuat			
kWc_max_Year	34835	0x12E2	Word	BCD	00-99		
kWc_max_Month	34836	0x12E3	Word	BCD	1-12		
kWc_max_Date	34837	0x12E4	Word	BCD	1-31		
kWc max Hour	34838	0x12E5	Word	BCD	0-23		
kWc max Min	34839	0x12E6	Word	BCD	0-59		
kWc max Second	34840	0x12E7	Word	BCD	0-59		
KWC_IIIax_Second	34841-	0x12E7	vvoru	DCD	0-37		
kWc_min	34842	0x12E6- 0x12E9	DWord	Float			
LAMI- mater Manage			\	DOD	00.00		
kWc_min_Year	34843	0x12EA	Word	BCD	00-99		
kWc_min_Month	34844	0x12EB	Word	BCD	1-12		
kWc_min_Date	34845	0x12EC	Word	BCD	1-31		
kWc_min_Hour	34846	0x12ED	Word	BCD	0-23		
kWc_min_Min	34847	0x12EE	Word	BCD	0-59		
kWc_min_Second	34848	0x12EF	Word	BCD	0-59		
LANGER	34849-	0x12F0-	DWG	E1 4			
kWtot_max	34850	0x12F1	DWord	Float			
kWtot_max_Year	34851	0x12F2	Word	BCD	00-99		
kWtot max Month	34852	0x12F3	Word	BCD	1-12		
kWtot_max_Date	34853	0x12F4	Word	BCD	1-31		
kWtot_max_bate	34854	0x12F5	Word	BCD	0-23		
kWtot_max_Min	34855	0x12F6	Word	BCD	0-59		
kWtot_max_Second	34856	0x12F7	Word	BCD	0-59		
kWtot min	34857-	0x12F8-	DWord	Float			
	34858	0x12F9					
kWtot_min_Year	34859	0x12FA	Word	BCD	00-99		
kWtot_min_Month	34860	0x12FB	Word	BCD	1-12		
kWtot_min_Date	34861	0x12FC	Word	BCD	1-31		
kWtot_min_Hour	34862	0x12FD	Word	BCD	0-23		
kWtot_min_Min	34863	0x12FE	Word	BCD	0-59		
kWtot min Second	34864	0x12FF	Word	BCD	0-59		
KTTTOT_TIME_GGGGTTG	0.00.	0X1211	110.0	202	0 07		
	34865-	0x1300-					
kvara_max	34866	0x1300=	DWord	Float			
kvara_max_Year	34867		Word	BCD	00-99		
		0x1302					
kvara_max_Month	34868	0x1303	Word				
kvara_max_Date	34869	1 (1) \(1) \)		BCD	1-12		
		0x1304	Word	BCD	1-31		
kvara_max_Hour	34870	0x1305	Word	BCD BCD	1-31 0-23		
kvara_max_Min	34870 34871			BCD	1-31		
	34870	0x1305	Word	BCD BCD	1-31 0-23		
kvara_max_Min kvara_max_Second	34870 34871	0x1305 0x1306	Word Word Word	BCD BCD BCD BCD	1-31 0-23 0-59		
kvara_max_Min	34870 34871 34872	0x1305 0x1306 0x1307	Word Word	BCD BCD BCD	1-31 0-23 0-59		
kvara_max_Min kvara_max_Second	34870 34871 34872 34873-	0x1305 0x1306 0x1307 0x1308-	Word Word Word	BCD BCD BCD BCD	1-31 0-23 0-59		
kvara_max_Min kvara_max_Second kvara_min	34870 34871 34872 34873- 34874 34875	0x1305 0x1306 0x1307 0x1308- 0x1309	Word Word Word DWord	BCD BCD BCD BCD Float	1-31 0-23 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year	34870 34871 34872 34873- 34874	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B	Word Word Word DWord	BCD BCD BCD BCD Float	1-31 0-23 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date	34870 34871 34872 34873- 34874 34875 34876 34877	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C	Word Word DWord Word Word Word Word	BCD BCD BCD BCD Float BCD BCD BCD	1-31 0-23 0-59 0-59 0-59 00-99 1-12 1-31		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour	34870 34871 34872 34873- 34874 34875 34876 34877 34878	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D	Word Word Word DWord Word Word Word Word Word	BCD BCD BCD BCD Float BCD BCD BCD BCD	1-31 0-23 0-59 0-59 0-59 00-99 1-12 1-31 0-23		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E	Word Word DWord Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD BCD BCD BCD BCD BCD	1-31 0-23 0-59 0-59 0-59 00-99 1-12 1-31 0-23 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F	Word Word Word DWord Word Word Word Word Word	BCD BCD BCD BCD Float BCD BCD BCD BCD	1-31 0-23 0-59 0-59 0-59 00-99 1-12 1-31 0-23		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881-	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310-	Word Word DWord Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD BCD BCD BCD BCD BCD	1-31 0-23 0-59 0-59 0-59 00-99 1-12 1-31 0-23 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311	Word Word Word Word Word Word Word Word	BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 00-99 1-12 1-31 0-23 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312	Word Word Word Word Word Word Word Word	BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313	Word Word Word Word Word Word Word Word	BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314	Word Word Word Word Word Word Word Word	BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 0-99 1-12 1-31		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315	Word Word Word Word Word Word Word Word	BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 00-99 1-12 1-31 0-23		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour kvarb_max_Hour kvarb_max_Min	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-99 1-12 1-31 0-23 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315	Word Word Word Word Word Word Word Word	BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 00-99 1-12 1-31 0-23		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour kvarb_max_Hour kvarb_max_Second	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-99 1-12 1-31 0-23 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour kvarb_max_Hour kvarb_max_Min	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887 34888	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316 0x1317	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-99 1-12 1-31 0-23 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour kvarb_max_Min kvarb_max_Second kvarb_max_Second	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34880 34881- 34882 34883 34884 34885 34886 34887 34888 34888 34889- 34890	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316 0x1317 0x1318- 0x1319	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-99 1-12 1-31 0-23 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour kvarb_max_Hour kvarb_max_Second kvarb_max_Second kvarb_max_Second	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887 34888 34888 34889- 34890 34891	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316 0x1317 0x1318- 0x1319 0x131A	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 1-12 1-31 0-23 0-59 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Min kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Date kvarb_max_Hour kvarb_max_Min kvarb_max_Second kvarb_max_Second kvarb_max_Min kvarb_max_Second kvarb_min_Year kvarb_min_Month	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887 34888 34889- 34890 34891 34892	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316 0x1317 0x1318- 0x1319 0x1318- 0x1318	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 1-12 1-31 0-23 0-59 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Hour kvarb_max_Hour kvarb_max_Second kvarb_max_Hour kvarb_max_Gond kvarb_max_Hour kvarb_max_Hour kvarb_max_Min kvarb_max_Second kvarb_min_Year kvarb_min_Month kvarb_min_Date	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887 34888 34887 34888 34890 34891 34892 34893	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316 0x1317 0x1318- 0x1319 0x131A 0x131B 0x131C	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 1-12 1-31 0-23 0-59 0-59 1-12 1-31 1-31		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Hour kvarb_max_Hour kvarb_max_Second kvarb_max_Hour kvarb_max_Min kvarb_max_Second kvarb_min_Year kvarb_min_Year kvarb_min_Month kvarb_min_Date kvarb_min_Hour	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887 34888 34889- 34890 34891 34892 34893 34894	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316 0x1317 0x1318- 0x1319 0x131A 0x131B 0x131D	Word Word Word Word Word Word Word Word	BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 1-12 1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59		
kvara_max_Min kvara_max_Second kvara_min kvara_min_Year kvara_min_Month kvara_min_Date kvara_min_Hour kvara_min_Second kvarb_max kvarb_max_Year kvarb_max_Month kvarb_max_Hour kvarb_max_Hour kvarb_max_Second kvarb_max_Hour kvarb_max_Gond kvarb_max_Hour kvarb_max_Hour kvarb_max_Min kvarb_max_Second kvarb_min_Year kvarb_min_Month kvarb_min_Date	34870 34871 34872 34873- 34874 34875 34876 34877 34878 34879 34880 34881- 34882 34883 34884 34885 34886 34887 34888 34887 34888 34890 34891 34892 34893	0x1305 0x1306 0x1307 0x1308- 0x1309 0x130A 0x130B 0x130C 0x130D 0x130E 0x130F 0x1310- 0x1311 0x1312 0x1313 0x1314 0x1315 0x1316 0x1317 0x1318- 0x1319 0x131A 0x131B 0x131C	Word Word Word Word Word Word Word Word	BCD BCD BCD BCD Float BCD	1-31 0-23 0-59 0-59 0-59 1-12 1-31 0-23 0-59 0-59 1-12 1-31 0-23 0-59 0-59 1-12 1-31 1-31		

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kvarc_max	34897- 34898	0x1320- 0x1321	DWord	Float			
kvarc_max_Year	34899	0x1321	Word	BCD	00-99		
kvarc max Month	34900	0x1323	Word	BCD	1-12	1	
kvarc_max_Date	34901	0x1324	Word	BCD	1-31		
kvarc_max_Hour	34902	0x1325	Word	BCD	0-23		
kvarc max Min	34903	0x1326	Word	BCD	0-59		
kvarc_max_Second	34904	0x1327	Word	BCD	0-59		
lucara min	34905-	0x1328-	DWord	Floot			
kvarc_min	34906	0x1329	DWord	Float			
kvarc_min_Year	34907	0x132A	Word	BCD	00-99		
kvarc_min_Month	34908	0x132B	Word	BCD	1-12		
kvarc_min_Date	34909	0x132C	Word	BCD	1-31		
kvarc_min_Hour	34910	0x132D	Word	BCD	0-23		
kvarc_min_Min	34911	0x132E	Word	BCD	0-59		
kvara_min_Second	34912	0x132F	Word	BCD	0-59		
kvartot_max	34913-	0x1330-	DWord	Float			
	34914	0x1331					
kvartot_max_Year	34915	0x1332	Word	BCD	00-99		
kvartot_max_Month	34916	0x1333	Word	BCD	1-12		
kvartot_max_Date	34917	0x1334	Word	BCD	1-31	 	
kvartot_max_Hour	34918	0x1335	Word	BCD	0-23	1	
kvartot_max_Min	34919	0x1336	Word	BCD	0-59	1	
kvartot_max_Second	34920	0x1337	Word	BCD	0-59	1	
kvartot_min	34921-	0x1338-	DWord	Float			
	34922	0x1339			00.00		
kvartot_min_Year	34923	0x133A	Word	BCD	00-99		
kvartot_min_Month	34924	0x133B	Word	BCD	1-12		
kvartot_min_Date	34925	0x133C	Word	BCD	1-31		
kvartot_min_Hour	34926	0x133D	Word	BCD	0-23		
kvartot_min_Min	34927	0x133E	Word	BCD	0-59		
kvartot_min_Second	34928	0x133F	Word	BCD	0-59		
						+	
	34929-	0x1340-					
kVAa_max	34930	0x1340-	DWord	Float			
kVAa_max_Year	34931	0x1342	Word	BCD	00-99	1	
kVAa_max_rear	34932	0x1343	Word	BCD	1-12		
kVAa_max_Date	34933	0x1344	Word	BCD	1-31		
kVAa max Hour	34934	0x1345	Word	BCD	0-23		
kVAa_max_Min	34935	0x1346	Word	BCD	0-59		
kVAa_max_Second	34936	0x1347	Word	BCD	0-59		
	34937-	0x1348-					
kVAa_min	34938	0x1349	DWord	Float			
kVAa_min_Year	34939	0x134A	Word	BCD	00-99		
kVAa_min_Month	34940	0x134B	Word	BCD	1-12		
kVAa_min_Date	34941	0x134C	Word	BCD	1-31		
kVAa_min_Hour	34942	0x134D	Word	BCD	0-23		
kVAa_min_Min	34943	0x134E	Word	BCD	0-59		
kVAa_min_Second	34944	0x134F	Word	BCD	0-59		
kVAb_max	34945-	0x1350-	DWord	Float			
	34946	0x1351					
kVAb_max_Year	34947	0x1352	Word	BCD	00-99		
kVAb_max_Month	34948	0x1353	Word	BCD	1-12		
kVAb_max_Date	34949	0x1354	Word	BCD	1-31		
kVAb_max_Hour	34950	0x1355	Word	BCD	0-23	1	
kVAb_max_Min	34951	0x1356	Word	BCD	0-59		
kVAb_max_Second	34952	0x1357	Word	BCD	0-59		
kVAb min	34953-	0x1358-	DWord	Float			
	34954	0x1359				 	
kVAb_min_Year	34955	0x135A	Word	BCD	00-99	1	
kVAb_min_Month	34956	0x135B	Word	BCD	1-12	+	
kVAb_min_Date	34957	0x135C	Word	BCD	1-31	1	
kVAb_min_Hour	34958	0x135D	Word	BCD	0-23	+	
LICATOR POLICE MAIN		0x135E	Word	BCD	0-59	1	
kVAb_min_Min	34959		167		0		
kVAb_min_Second	34960	0x135F	Word	BCD	0-59		
kVAb_min_Second kVAc_max	34960 34961- 34962	0x135F 0x1360- 0x1361	DWord	Float	0-59		
kVAb_min_Second	34960 34961-	0x135F 0x1360-			0-59		

kVAc_max_Date	34965	0x1364	Word	BCD	1-31		
kVAc_max_Hour	34966	0x1365	Word	BCD	0-23		
kVAc_max_Min	34967	0x1366	Word	BCD	0-59		
kVAc_max_Second	34968	0x1367	Word	BCD	0-59		
	34969-	0x1368-	5111				
kVAc_min	34970	0x1369	DWord	Float			
kVAc_min_Year	34971	0x136A	Word	BCD	00-99		
kVAc min Month	34972	0x136B	Word	BCD	1-12		
kVAc min Date	34973	0x136C	Word	BCD	1-31		
kVAc_min_Hour	34974	0x136D	Word	BCD	0-23		
kVAc_min_Min	34975	0x136E	Word	BCD	0-59		
kVAc_min_Second	34976	0x136F	Word	BCD	0-59		
kVAtot_max	34977-	0x1370-	DWord	Float			
KVAtot_IIIax	34978	0x1371	DVVOIG	Hoat			
kVAtot_max_Year	34979	0x1372	Word	BCD	00-99		
kVAtot_max_Month	34980	0x1373	Word	BCD	1-12		
kVAtot_max_Date	34981	0x1374	Word	BCD	1-31		
kVAtot max Hour	34982	0x1375	Word	BCD	0-23		
kVAtot_max_Min	34983	0x1376	Word	BCD	0-59		
kVAtot_max_Second	34984	0x1370	Word	BCD	0-59		
KVAtot_max_second			vvord	ВСБ	0-39		
kVAtot_min	34985-	0x1378-	DWord	Float			
	34986	0x1379					
kVAtot_min_Year	34987	0x137A	Word	BCD	00-99		
kVAtot_min_Month	34988	0x137B	Word	BCD	1-12		
kVAtot_min_Date	34989	0x137C	Word	BCD	1-31		
kVAtot_min_Hour	34990	0x137D	Word	BCD	0-23		
kVAtot min Min	34991	0x137E	Word	BCD	0-59		
kVAtot min Second	34992	0x137F	Word	BCD	0-59		
KV/Kot_mm_coccina	01772	OX 1071	word	808	0 07		
	24002	01200					
Frequency_max	34993-	0x1380-	DWord	Float			
, 3-	34994	0x1381					
Frequency_max_Year	34995	0x1382	Word	BCD	00-99		
Frequency_max_Month	34996	0x1383	Word	BCD	1-12		
Frequency_max_Date	34997	0x1384	Word	BCD	1-31		
Frequency_max_Hour	34998	0x1385	Word	BCD	0-23		
Frequency_max_Min	34999	0x1386	Word	BCD	0-59		
Frequency max Second	35000	0x1387	Word	BCD	0-59		
1 7= =	35001-	0x1388-			0 07		
Frequency_min	35002	0x1389	DWord	Float			
Francisco value Value	35002		\	DCD	00-99		
Frequency_min_Year		0x138A	Word	BCD			
Frequency_min_Month	35004	0x138B	Word	BCD	1-12		
Frequency_min_Date	35005	0x138C	Word	BCD	1-31		
Frequency_min_Hour	35006	0x138D	Word	BCD	0-23		
Frequency_min_Min	35007	0x138E	Word	BCD	0-59		
Frequency_min_Second	35008	0x138F	Word	BCD	0-59		
				· · · · · · · · · · · · · · · · · · ·			
BE :	35009-	0x1390-	DW :	E			
PF_min	35010	0x1391	DWord	Float			
PF_min_Year	35011	0x1392	Word	BCD	00-99		
PF_min_Month	35011	0x1392	Word	BCD	1-12	<u> </u>	+
						1	
PF_min_Date	35013	0x1394	Word	BCD	1-31		
PF_min_Hour	35014	0x1395	Word	BCD	0-23	-	
PF_min_Min	35015	0x1396	Word	BCD	0-59		
PF_min_Second	35016	0x1397	Word	BCD	0-59		
Domand may	35017-	0x1398-	DWarral	Flest			
Demand_max	35018	0x1399	DWord	Float			
Demand_max_Year	35019	0x139A	Word	BCD	00-99		
Demand_max_Month	35020	0x139B	Word	BCD	1-12		
Demand_max_Date	35020	0x139C	Word	BCD	1-31		
						1	
Demand_max_Hour	35022	0x139D	Word	BCD	0-23		-
Demand_max_Min	35023	0x139E	Word	BCD	0-59		
Demand_max_Second	35024	0x139F	Word	BCD	0-59		
		ļ					
V_Unbalance_max	35025-	0x13A0-	DWord	Float			
v_UIIDAIAIICE_IIIAX	35026	0x13A1	שאיטוע	riuat			
V_Unbalance_max_Year	35027	0x13A2	Word	BCD	00-99		
V_Unbalance_max_Month	35028	0x13A3	Word	BCD	1-12		
		0x13A4	Word	BCD	1-31	İ	1
V_Unbalance_max_Date	35029	UXIOA4					

V Unbalance max Hour	35030	0x13A5	Word	BCD	0-23		
V Unbalance max Min	35030	0x13A6	Word	BCD	0-23		
V Unbalance max Second	35031	0x13A7	Word	BCD	0-59		
V_Unbalance_min	35033-	0x13A8-	DWord	Float	0 0 7	1	
	35034	0x13A9					
V_Unbalance_min_Year	35035	0x13AA	Word	BCD	00-99		
V_Unbalance_min_Month	35036	0x13AB	Word	BCD	1-12		
V_Unbalance_min_Date	35037	0x13AC	Word	BCD	1-31		
V_Unbalance_min_Hour	35038	0x13AD	Word	BCD	0-23		
V_Unbalance_min_Min	35039	0x13AE	Word	BCD	0-59		
V_Unbalance_min_Second	35040	0x13AF	Word	BCD	0-59		
I_Unbalance_max	35041-	0x13B0-	DWord	Float			
	35042	0x13B1					
I_Unbalance_max_Year	35043	0x13B2	Word	BCD	00-99		
I_Unbalance_max_Month	35044	0x13B3	Word	BCD	1-12		
I_Unbalance_max_Date	35045	0x13B4	Word	BCD	1-31		
I_Unbalance_max_Hour	35046	0x13B5	Word	BCD	0-23		
I_Unbalance_max_Min	35047	0x13B6	Word	BCD	0-59		
I_Unbalance_max_Second	35048	0x13B7	Word	BCD	0-59		
I_Unbalance_min	35049-	0x13B8-	DWord	Float			
	35050	0x13B9					
I_Unbalance_min_Year	35051	0x13BA	Word	BCD	00-99		
I_Unbalance_min_Month	35052	0x13BB	Word	BCD	1-12		
I_Unbalance_min_Date	35053	0x13BC	Word	BCD	1-31		
I_Unbalance_min_Hour	35054	0x13BD	Word	BCD	0-23		
I_Unbalance_min_Min	35055	0x13BE	Word	BCD	0-59		
I_Unbalance_min_Second	35056	0x13BF	Word	BCD	0-59		

