EM300 Series

and

ET300 Series

COMMUNICATION PROTOCOL

Version 2 Revision 13

Index

1.1 Introduction 3
1.2 MODBUS functions 3
1.2.1 Function 03h (Read Holding Registers) 3
1.2.2 Function 04h (Read Input Registers) 4
1.2.3 Function 06h (Write Single Holding Register) 4
1.2.4 Function 08h (Diagnostic with sub-function code 00h) 5
1.2.5 Broadcast mode 5
1.3 Application notes 6
1.3.1 RS485 general considerations 6
1.3.2 MODBUS timing 6

2 TABLES 7

2.1 Data format representation In Carlo Gavazzi instruments 7
2.2 Geometric representation 7
2.3 Maximum and minimum electrical values in EM/ET300 SERIES 8
2.4 Instantaneous variables and meters (grouped by variable type) 9
Instantaneous variables and meters (grouped by phase) 11
2.5 Firmware version and revision code 12
2.6 Carlo Gavazzi Controls identification code 12
2.7 Programming parameter tables 14
2.7.1 Password configuration menu 14
2.7.2 System configuration menu 14
2.7.3 PT and CT configuration menu 14
2.7.4 Dmd and pulse outs configuration menu 14
2.7.5 Other functions configuration menu 15
2.7.6 Active tariff selection 16
2.7.7 Serial port configuration menu 16
2.7.8 Reset commands 16
2.7.9 Serial number 17
2.7.10 Note 17

3 REVISIONS ....שגיאה! הסימניה אינה מוגדרת.

1.1 Introduction

The RS485 serial interface supports the MODBUS/JBUS (RTU) protocol. In this document only the information necessary to read/write from/to EM/ET300 SERIES has been reported (not all the parts of the protocol have been implemented).
For a complete description of the MODBUS protocol please refer to the latest revision of the "Modbus_Application_Protocol" document that is downloadable from the www.modbus.org web site.

1.2 MODBUS functions

These functions are available on EM/ET300 SERIES:

- Reading of n "Holding Registers" (code 03h)
- Reading of n "Input Register" (code 04h)
- Writing of one "Holding Registers" (code 06h)
- Diagnostic (code 08h with sub-function code 00h)
- Broadcast mode (writing instruction on address 00h)

IMPORTANT:

1) In this document the "Modbus address" field is indicated in two modes:
   1.1) "**Modicom address**": it is the "6-digit Modicom" representation with Modbus function code 04 (Read Input Registers). It is possible to read the same values with function code 03 (Read Holding Registers) replacing the first digit ("3") with the number "4".
   1.2) "**Physical address**": it is the "word address" value to be included in the communication frame.
2) The functions 03h and 04h have exactly the same effect and can be used indifferently.
3) The communication parameters are to be set according to the configuration of the instrument (refer to EM/ET300 SERIES instruction manual)

1.2.1 Function 03h (Read Holding Registers)

This function is used to read the contents of a contiguous block of holding registers (word). The Request frame specifies the starting register address and the number of registers to be read. It is possible to read maximum 50 registers (words) with a single request, when not differently specified.
The register data in the response message are packed as two bytes per register (word), with the binary contents right justified within each byte. For each register, the first byte contains the high order bits (MSB) and the second contains the low order bits (LSB).

Request frame

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	
Function code	1 byte	03h	
Starting address	2 bytes	0000h to FFFFh	Byte order: MSB, LSB
Quantity of registers (**N** word)	2 bytes	1 to 14h (1 to 20)	Byte order: MSB, LSB
CRC	2 bytes		

Response frame (correct action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	
Function code	1 byte	03h	
Quantity of requested bytes	1 byte	**N** word * 2	
Register value	**N***2 bytes		Byte order: MSB, LSB
CRC	2 bytes		

Response frame (incorrect action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	Possible exception : 01h: illegal function 02h: illegal data address 03h: illegal data value 04h: slave device failure
Function code	1 byte	83h	
Exception code	1 byte	01h, 02h, 03h, 04h (see note)	
CRC	2 bytes		

1.2.2 Function 04h (Read Input Registers)

This function code is used to read the contents of a contiguous block of input registers (word). The Request frame specifies the starting register address and the number of registers to be read. It is possible to read maximum 50 register (word) with a single request, when not differently specified.
The register data in the response message are packed as two bytes per register (word), with the binary contents right justified within each byte. For each register, the first byte contains the high order bits (MSB) and the second contains the low order bits (LSB).

Request frame

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	
Function code	1 byte	04h	
Starting address	2 bytes	0000h to FFFFh	Byte order: MSB, LSB
Quantity of registers (**N** word)	2 bytes	1 to 14h (1 to 20)	Byte order: MSB, LSB
CRC	2 bytes		

Response frame (correct action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	
Function code	1 byte	04h	
Quantity of requested bytes	1 byte	**N** word * 2	
Register value	**N***2 bytes		Byte order: MSB, LSB
CRC	2 bytes		

Response frame (incorrect action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	Possible exception : 01h: illegal function 02h: illegal data address 03h: illegal data value 04h: slave device failure
Function code	1 byte	84h	
Exception code	1 byte	01h, 02h, 03h, 04h	
CRC	2 bytes		

1.2.3 Function 06h (Write Single Holding Register)

This function code is used to write a single holding register. The Request frame specifies the address of the register (word) to be written and its content.
The correct response is an echo of the request, returned after the register content has been written.

Request frame

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	
Function code	1 byte	06h	
Starting address	2 bytes	0000h to FFFFh	Byte order: MSB, LSB
Register value	2 bytes	0000h to FFFFh	Byte order: MSB, LSB
CRC	2 bytes		

Response frame (correct action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	
Function code	1 byte	06h	
Starting address	2 bytes	0000h to FFFFh	Byte order: MSB, LSB
Register value	2 bytes	0000h to FFFFh	Byte order: MSB, LSB
CRC	2 bytes		

Response frame (incorrect action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	Possible exception : 01h: illegal function 02h: illegal data address 03h: illegal data value 04h: slave device failure
Function code	1 byte	86h	
Exception code	1 byte	01h, 02h, 03h, 04h	
CRC	2 bytes		

1.2.4 Function 08h (Diagnostic with sub-function code 00h)

MODBUS function 08h provides a series of tests to check the communication system between a client (Master) device and a server (Slave), or to check various internal error conditions in a server.
EM/ET300 Series supports only 0000h sub-function code (Return Query Data). With this sub-function the data passed in the request data field is to be returned (looped back) in the response. The entire response message should be identical to the request.

Request frame

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	
Function code	1 byte	08h	
Sub-function	2 bytes	0000h	
Data (**N** word)	**N** *2 bytes	Data	Byte order: MSB, LSB
CRC	2 bytes		

Response frame (correct action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7 (1 to 247)	
Function code	1 byte	08h	
Sub-function	2 bytes	0000h	
Data (**N** word)	**N** *2 bytes	Data	Byte order: MSB, LSB
CRC	2 bytes		

Response frame (incorrect action)

Description	Length	Value	Note
Physical address	1 byte	1 to F7h (1 to 247)	Possible exception : 01h: illegal function 02h: illegal data address 03h: illegal data value 04h: slave device failure
Function code	1 byte	88h	
Exception code	1 byte	01h, 02h, 03h, 04h	
CRC	2 bytes		

1.2.5 Broadcast mode

In broadcast mode the master can send a request (command) to all the slaves. No response is returned to broadcast requests sent by the master. It is possible to send the broadcast message only with function code 06h using address 00h.

1.3 Application notes

1.3.1 RS485 general considerations

1. To avoid errors due to the signal reflections or line coupling, it is necessary to terminate the bus at the beginning and at the end (inserting a 120 ohm 1/2W 5% resistor between line B and A in the last instrument and in the Host interface). The termination resistance is included in the meter and can be inserted by connecting terminal T with terminal B.
2. The network termination is necessary even in case of point-to-point connection and/or of short distances.
3. For connections longer than 1000m or if in the network there are more than 160 instruments (with 1/5 unit load as used in EM/ET300 SERIES interface), a signal repeater is necessary.
4. For bus connection it is suggested to use an AWG24 balanced pair cable and to add a third wire for GND connection. Connect GND to the shield if a shielded cable is used.
5. The GND is to be connected to ground only at the host side.
6. If an instrument does not answer within the “max answering time”, it is necessary to repeat the query. If the instrument does not answer after 2 or 3 consecutive queries, it is to be considered as not connected, faulty or reached with a wrong address. The same consideration is valid in case of CRC errors or incomplete response frames.

1.3.2 MODBUS timing

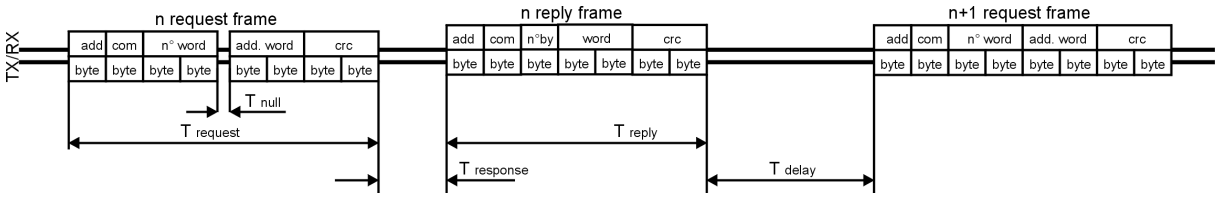


Fig. 1 : 2-wire timing diagram

Timing characteristics of reading function:	msec
T response: Max answering time	500ms
T response: Typical answering time	40ms
T delay: Minimum time before a new query	3,5char
T null: Max interruption time during the request frame	2,5char

2 TABLES

2.1 Data format representation In Carlo Gavazzi instruments

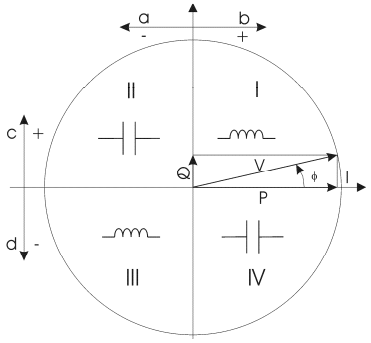
The variables are represented by integers or floating numbers, with 2's complement notation in case of "signed" format, using the following:

Format	IEC data type	Description	Bits	Range
INT16	INT	Integer	16	-32768 .. 32767
UINT16	UINT	Unsigned integer	16	0 .. 65535
INT32	DINT	Double integer	32	-2^{31} .. 2^{31}
UINT32	UDINT	Unsigned double int	32	0 .. $2^{32}-1$
UINT64	ULINT	Unsigned long integer	64	0 .. $2^{64}-1$
IEEE754 SP		Single-precision floating-point	32	$-(1+[1-2^{-23}])x2^{127}$ .. 2^{128}

For all the formats the byte order (inside the single word) is MSB->LSB. In INT32, UINT32 and UINT64 formats, the word order is LSW-> MSW.

2.2 Geometric representation

According to the signs of the power factor, the active power P and the reactive power Q, it is possible to obtain a geometric representation of the power vector, as indicated in the drawing below, according to EN 60253-23:



a = Exported active power
b = Imported active power
c = Imported reactive power
d = Exported reactive power

Fig. 2 : Geometric Representation

According to the measurement mode (easy connection or bidirectional), the following sign convention is used in EM/ET300 SERIES.

- Easy connection mode
  - I always >0
  - P always >0
  - kWh always increasing (correspondent to Annex D option PFA)
  - **kvarh increases only when Q>0**
  - PF only with C and L (without sign) indication

- Bidirectional mode)
  - I < or >0 (with indication of "-" sign)
  - P < or >0 (with indication of "-" sign)
  - kWh+ increasing only when P > 0 (correspondent to Annex D option PFB)
  - kWh- increasing only when P < 0
  - kvarh+ increasing only when Q > 0
  - kvarh- increasing only when Q < 0
  - PF with ±C or ±L indication

Application	Real measurement	Displayed values	Displayed energies	Notes
Easy connection Mode	Quadrant I	A, W, var, L PF	kWh increases, kvarh increases	Measurement A or PFA models
	Quadrant II	A, W, -var, C PF	kWh increases, kvarh **doesn't** increases	Measurement A or PFA models
	Quadrant III	A, W, var, L PF	kWh increases, kvarh increases	Measurement A or PFA models
	Quadrant IV	A, W, -var, C PF	kWh increases, kvarh **doesn't** increases	Measurement A or PFA models
Bidirectional Mode	Quadrant I	A, W, var, +L PF	kWh+ increases, kvarh+ increases	Measurement B or PFB models
	Quadrant II	-A, -W, +var, -C PF	kWh- increases, kvarh+ increases	Measurement B or PFB models
	Quadrant III	-A, -W, -var, -L PF	kWh- increases, kvarh- increases	Measurement B or PFB models
	Quadrant IV	A, W, -var, +C PF	kWh+ increases, kvarh- increases	Measurement B or PFB models

2.3 Maximum and minimum electrical values in EM/ET300 SERIES

The maximum electrical input values are reported in the following table. If the input is above the maximum value the display shows "EEE".

Table 2.1-1

	AV5 input option		AV6 input option	
	Max value	**Min value**	**Max value**	**Min value**
VL-N	485V	0	150V	0
VL-L	840V	0	260V	0
A	6,5A (displayed value = 6.5 Ax CT ratio)	0	6,5A (displayed value = 6.5 Ax CT ratio)	0
VT	1000	1	1000	1
CT	1000	1	1000	1

Note: The product (CT ratio)x(VT ratio) shall be automatically limited to prevent overflow of kW indication on the meter (max power = 9999 kW).

The overflow indication "EEE" is displayed when the MSB value of the relevant variable is 7FFFFFFFh (word order FFFF 7FFF).

2.4 Instantaneous variables and meters (grouped by variable type)

MODBUS: read only mode with functions code 03 and 04 Table 2.4-1

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
300001	0000h	2	V L1-N	INT32	Value weight: Volt*10
300003	0002h	2	V L2-N	INT32	
300005	0004h	2	V L3-N	INT32	
300007	0006h	2	V L1-L2	INT32	
300009	0008h	2	V L2-L3	INT32	
300011	000Ah	2	V L3-L1	INT32	
300013	000Ch	2	A L1	INT32	Value weight: Ampere*1000
300015	000Eh	2	A L2	INT32	
300017	0010h	2	A L3	INT32	
300019	0012h	2	kW L1	INT32	Value weight: Watt*10
300021	0014h	2	kW L2	INT32	
300023	0016h	2	kW L3	INT32	
300025	0018h	2	kVA L1	INT32	Value weight: VA*10
300027	001Ah	2	kVA L2	INT32	
300029	001Ch	2	kVA L3	INT32	
300031	001Eh	2	kvar L1	INT32	Value weight: var*10
300033	0020h	2	kvar L2	INT32	
300035	0022h	2	kvar L3	INT32	
300037	0024h	2	V L-N sys	INT32	Value weight: Volt*10
300039	0026h	2	V L-L sys	INT32	
300041	0028h	2	kW sys	INT32	Value weight: Watt*10
300043	002Ah	2	kVA sys	INT32	Value weight: VA*10
300045	002Ch	2	kvar sys	INT32	Value weight: var*10
300047	002Eh	1	PF L1	INT16	Negative values correspond to exported active power, positive values correspond to imported active power. Value weight: PF*1000
300048	002Fh	1	PF L2	INT16	
300049	0030h	1	PF L3	INT16	
300050	0031h	1	PF sys	INT16	
300051	0032h	1	Phase sequence	INT16	The value –1 corresponds to L1-L3-L2 sequence, the value 0 corresponds to L1-L2-L3 sequence. The phase sequence value is meaningful only in a 3-phase system
300052	0033h	1	Hz	INT16	Value weight: Hz*10
300053	0034h	2	kWh (+) TOT	INT32	Value weight: kWh*10
300055	0036h	2	Kvarh (+) TOT	INT32	Value weight: kvarh*10
300057	0038h	2	kW dmd	INT32	Value weight: Watt*10
300059	003Ah	2	kW dmd peak	INT32	Value weight: Watt*10
300061	003Ch	2	kWh (+) PARTIAL	INT32	Value weight: kWh*10
300063	003Eh	2	Kvarh (+) PARTIAL	INT32	Value weight: kvarh*10
300065	0040h	2	kWh (+) L1	INT32	Value weight: kWh*10
300067	0042h	2	kWh (+) L2	INT32	Value weight: kWh*10
300069	0044h	2	kWh (+) L3	INT32	Value weight: kWh*10
300071	**0046h**	**2**	kWh (+) t1	**INT32**	Value weight: kWh*10
300073	**0048h**	**2**	kWh (+) t2	**INT32**	Value weight: kWh*10
300075	004Ah	2	kWh (+) t3	INT32	If available, Value weight: kWh*10
300077	004Ch	2	kWh (+) t4	INT32	If available, Value weight: kWh*10
300079	004Eh	2	kWh (-) TOT	INT32	Value weight: kWh*10
300081	0050h	2	kvarh (-) TOT	INT32	Value weight: kvarh*10
300083	0052h	2	kWh (-) PARTIAL	INT32	Not available, value =0
300085	0054h	2	Kvarh (-) PARTIAL	INT32	Not available, value =0
300087	0056h	2	kVAh TOT	INT32	Not available, value =0
300089	0058h	2	kVAh PARTIAL	INT32	Not available, value =0
300091	005Ah	2	Hour meter	INT32	Value weight: hours*100, only ET series
300093	005Ch	2	Hour meter kWh (-)	INT32	Not available, value =0
300095	005Eh	2	n.a.	INT32	Not available, value =0
300097	0060h	2	kWh (-) L1	INT32	Value weight: kWh*10, only ET series
300099	0062h	2	kWh (-) L2	INT32	Value weight: kWh*10, only ET series
300101	0064h	2	kWh (-) L3	INT32	Value weight: kWh*10, only ET series
300103	0066h	2	kWh (+) t5	INT32	Not available, value =0
300105	0068h	2	kWh (+) t6	INT32	Not available, value =0
300107	006Ah	2	kWh (+) t7	INT32	Not available, value =0
300109	006Ch	2	kWh (+) t8	INT32	Not available, value =0
300111	006Eh	2	n.a.	INT32	Not available, value =0
300113	0070h	2	n.a.	INT32	Not available, value =0
300115	0072h	2	n.a.	INT32	Not available, value =0
300117	0074h	2	n.a.	INT32	Not available, value =0
300119	0076h	2	n.a.	INT32	Not available, value =0
300121	0078h	2	n.a.	INT32	Not available, value =0
300123	007Ah	2	n.a.	INT32	Not available, value =0
300125	007Ch	2	n.a.	INT32	Not available, value =0

300127	007Eh	2	n.a.	INT32	Not available, value =0
300129	0080h	2	n.a.	INT32	Not available, value =0
300131	0082h	2	THD A L1	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300133	0084h	2	THD A L2	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300135	0086h	2	THD A L3	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300137	0088h	2	THD V L-N sys	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h. Average of V1-N, V2-N, V3-N
300139	008Ah	2	THD V L1-N	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300141	008Ch	2	THD V L2-N	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300143	008Eh	2	THD V L3-N	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300145	0090h	2	THD V L-L sys	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300147	0092h	2	THD V L1-L2	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300149	0094h	2	THD V L2-L3	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300151	0096h	2	THD V L3-L1	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h
300153	0098h	2	An	INT32	Only EM330, EM331

Instantaneous variables and meters (grouped by phase)

MODBUS: read only mode with functions code 03 and 04 Table 0-1

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
System variables					
300249	00F6h	2	Hour meter kWh (-)	INT32	Value weight: Ampere*1000
300249	00F8h	2	A n	INT32	Value weight: Ampere*1000
300251	00FAh	2	THD V L-N sys	INT32	Value weight: %*100, only ET, EM330 and EM331 series if THD calculation is enabled in 1106h. Average of V1-N, V2-N, V3-N
300253	00FCh	2	THD V L-L sys	INT32	Not available, value =0
300255	00FEh	2	Hour meter	INT32	Value weight: hours*100, only ET series
300257	**0100h**	2	n.a.	INT32	Not available, value =0
300259	0102h	2	V L-N sys	INT32	Value weight: Volt*10
300261	0104h	2	V L-L sys	INT32	Value weight: Volt*10
300263	0106h	2	kW sys	INT32	Value weight: Watt*10
300265	0108h	2	kVA sys	INT32	Value weight: VA*10
300267	010Ah	2	kvar sys	INT32	Value weight: var*10
300269	010Ch	2	PF sys	INT32	(*) Value weight: PF*1000
300271	010Eh	2	Phase sequence	INT32	The value –1 corresponds to L1-L3-L2 sequence, the value 0 corresponds to L1-L2-L3 sequence. The phase sequence value is meaningful only in a 3-phase system
300273	0110h	2	Hz	INT32	Value weight: Hz*10
Total energies and dmd power					
300275	0112h	2	kWh (+) TOT	INT32	Value weight: kWh*10
300277	0114h	2	Kvarh (+) TOT	INT32	Value weight: kvarh*10
300279	0116h	2	kWh (-) TOT	INT32	Value weight: kWh*10
300281	0118h	2	kvarh (-) TOT	INT32	Value weight: kvarh*10
300283	011Ah	2	kW dmd	INT32	Value weight: Watt*10
300285	011Ch	2	kW dmd peak	INT32	Value weight: Watt*10
Phase 1 variables					
300287	011Eh	2	V L1-L2	INT32	Value weight: Volt*10
300289	0120h	2	V L1-N	INT32	Value weight: Volt*10
300291	0122h	2	A L1	INT32	Value weight: Ampere*1000
300293	0124h	2	kW L1	INT32	Value weight: Watt*10
300295	0126h	2	kVA L1	INT32	Value weight: VA*10
300297	0128h	2	kvar L1	INT32	Value weight: var*10
300299	012Ah	2	PF L1	INT32	(*) Value weight: PF*1000
Phase 2 variables					
300301	012Ch	2	V L2-L3	INT32	Value weight: Volt*10
300303	012Eh	2	V L2-N	INT32	Value weight: Volt*10
300305	0130h	2	A L2	INT32	Value weight: Ampere*1000
300307	0132h	2	kW L2	INT32	Value weight: Watt*10
300309	0134h	2	kVA L2	INT32	Value weight: VA*10
300311	0136h	2	kvar L2	INT32	Value weight: var*10
300313	0138h	2	PF L2	INT32	(*) Value weight: PF*1000
Phase 3 variables					
300315	013Ah	2	V L3-L1	INT32	Value weight: Volt*10
300317	013Ch	2	V L3-N	INT32	Value weight: Volt*10
300319	013Eh	2	A L3	INT32	Value weight: Ampere*1000
300321	0140h	2	kW L3	INT32	Value weight: Watt*10
300323	0142h	2	kVA L3	INT32	Value weight: VA*10
300325	0144h	2	kvar L3	INT32	Value weight: var*10
300327	0146h	2	PF L3	INT32	(*) Value weight: PF*1000
Other energies					
300329	0148h	2	kWh (+) PARTIAL	INT32	Value weight: kWh*10
300331	014Ah	2	Kvarh (+) PARTIAL	INT32	Value weight: kvarh*10
300333	014Ch	2	kWh (+) L1	INT32	Value weight: kWh*10
300335	014Eh	2	kWh (+) L2	INT32	Value weight: kWh*10
300337	0150h	2	kWh (+) L3	INT32	Value weight: kWh*10
300339	0152h	2	kWh (+) t1	INT32	Value weight: kWh*10
300341	0154h	2	kWh (+) t2	INT32	Value weight: kWh*10
300343	0156h	2	kWh (+) t3	INT32	Not available, value =0
300345	0158h	2	kWh (+) t4	INT32	Not available, value =0
300347	015Ah	2	kWh (-) PARTIAL	INT32	Not available, value =0
300349	015Ch	2	Kvarh (-) PARTIAL	INT32	Not available, value =0
300351	015Eh	2	kVAh TOT	INT32	Not available, value =0
300353	0160h	2	kVAh PARTIAL	INT32	Not available, value =0
300355	0162h	2	n.a.	INT32	Not available, value =0
300357	0164h	2	n.a.	INT32	Not available, value =0
300359	0166h	2	n.a.	INT32	Not available, value =0
300361	0168h	2	n.a.	INT32	Not available, value =0
300363	016Ah	2	n.a.	INT32	Not available, value =0

300365	016Ch	2	kWh (-) L1	INT32	Value weight: kWh*10, only ET series
300367	016Eh	2	kWh (-) L2	INT32	Value weight: kWh*10, only ET series
300369	0170h	2	kWh (-) L3	INT32	Value weight: kWh*10, only ET series
300371	0172h	2	kWh (+) t5	INT32	Not available, value =0
300373	0174h	2	kWh (+) t6	INT32	Not available, value =0
300375	0176h	2	kWh (+) t7	INT32	Not available, value =0
300377	0178h	2	kWh (+) t8	INT32	Not available, value =0
300379	017Ah	2	n.a.	INT32	Not available, value =0
300381	017Ch	2	n.a.	INT32	Not available, value =0
300383	017Eh	2	n.a.	INT32	Not available, value =0
			Other Phase 1 variables		
300385	**0180h**	**2**	THD A L1	INT32	Value weight: %*100, only ET series if THD calculation is enabled in 1106h
300387	**0182h**	**2**	THD V L1-N	INT32	Value weight: %*100, only ET series if THD calculation is enabled in 1106h
300389	0184h	2	THD V L1-L2	INT32	Not available, value =0
300391	0186h	2	n.a.	INT32	Not available, value =0
300393	0188h	2	n.a.	INT32	Not available, value =0
300395	018Ah	2	n.a.	INT32	Not available, value =0
300397	018Ch	2	n.a.	INT32	Not available, value =0
300399	018Eh	2	n.a.	INT32	Not available, value =0
300401	0190h	2	n.a.	INT32	Not available, value =0
			Other Phase 2 variables		
300403	**0192h**	**2**	THD A L2	INT32	Value weight: %*100, only ET series if THD calculation is enabled in 1106h
300405	**0194h**	**2**	THD V L2-N	INT32	Value weight: %*100, only ET series if THD calculation is enabled in 1106h
300407	0196h	2	THD V L2-L3	INT32	Not available, value =0
300409	0198h	2	n.a.	INT32	Not available, value =0
300411	019Ah	2	n.a.	INT32	Not available, value =0
300413	019Ch	2	n.a.	INT32	Not available, value =0
300415	019Eh	2	n.a.	INT32	Not available, value =0
300417	01A0h	2	n.a.	INT32	Not available, value =0
300419	01A2h	2	n.a.	INT32	Not available, value =0
			Other Phase 3 variables		
300421	01A4h	2	THD A L3	INT32	Value weight: %*100, only ET series if THD calculation is enabled in 1106h
300423	01A6h	2	THD V L3-N	INT32	Value weight: %*100, only ET series if THD calculation is enabled in 1106h
300425	01A8h	2	THD V L3-L1	INT32	Not available, value =0
300427	01AAh	2	n.a.	INT32	Not available, value =0
300429	01ACh	2	n.a.	INT32	Not available, value =0
300431	01AEh	2	n.a.	INT32	Not available, value =0
300433	01B0h	2	n.a.	INT32	Not available, value =0
300435	01B2h	2	n.a.	INT32	Not available, value =0
300437	01B4h	2	n.a.	INT32	Not available, value =0

Note *: Negative values correspond to exported active power, positive values correspond to imported active power.

Note Table 2.4-1 and 2.5-1 are equivalent and includes a copy of the same variable values.

Note For meters that support also 1-phase and 2-phase systems, the values relevant to phase 2 and 3 can still be read with a valid value, equal to 0

Programming parameter note: reading values in addresses not specified in the below tables returns an illegal data address exception.

2.5 Firmware version and revision code

MODBUS: read only mode with functions code 03 and 04 limited to a word at a time Table 2.5-1

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
300771	0302h	1	Version code	UINT 16	Value=0: Version “A”, =1: Version “B”, etc.
300772	0303h	1	Revision code	UINT 16	Value=0: Revision “0” etc.

2.6 Carlo Gavazzi Controls identification code

MODBUS: read only mode with functions code 03 and 04 limited to a word at a time Table 2.6-1

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
300012	000Bh	1	Carlo Gavazzi Controls identification code	UINT 16	See table 2.6-2

Table 2.7-2

Complete item number	CG identification code
EM330-DIN AV5 3 H S1 X ENGINEERING SAMPLE ONLY (with MSW-LSW word order)	330
EM330-DIN AV5 3 L S1 X	332
EM330-DIN AV5 3 L S1 PF A	332
EM330-DIN AV5 3 L S1 PF B	332
EM330-DIN AV5 3 H S1 X	332
EM330-DIN AV5 3 H S1 PF A	332
EM330-DIN AV5 3 H S1 PF B	332
EM330-DIN AV6 3 L S1 X	331
EM330-DIN AV6 3 L S1 PF A	331
EM330-DIN AV6 3 L S1 PF B	331
EM330-DIN AV6 3 H S1 X	331
EM330-DIN AV6 3 H S1 PF A	331
EM330-DIN AV6 3 H S1 PF B	331
ET330-DIN AV5 3 L S1 X	335
ET330-DIN AV5 3 H S1 X	335
ET330-DIN AV6 3 L S1 X	336
ET330-DIN AV6 3 H S1 X	336
EM340-DIN AV2 3 X S1 X ENGINEERING SAMPLE ONLY (with MSW-LSW word order)	340
EM340-DIN AV2 3 X S1 X	341
EM340-DIN AV2 3 X S1 PF A	341
EM340-DIN AV2 3 X S1 PF B	341
EM341-DIN AV2 3 X OS X	346
ET340-DIN AV2 3 X S1 X	345
EM331-DIN.AV5.3.H.OS.X	355

2.7 Programming parameter tables

2.7.1 Password configuration menu

MODBUS: read and write mode

Table 2.7-1

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
304097	1000h	1	PASSWORD (EM only)	UINT 16	Minimum valid value: 0d Maximum valid value: 9999d In ET always 0.

2.7.2 System configuration menu

MODBUS: read and write mode

Table 2.8-2

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
304099	1002h	1	Measuring system	UINT 16	Value=0: "3Pn" (3-phase with neutral) Value=1: "3P" (3-phase without neutral) Value=2: "2P" (2-phase with neutral) Value=3: 1P

2.7.3 PT and CT configuration menu

MODBUS: read and write mode

Table 2.7-3

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
304100	1003h	2	Current transformer ratio	UINT 32	Value min = 10 (CT=1,0) Value max = 10000 (CT=1000.0)
304102	1005h	2	Voltage transformer ratio	UINT 32	Value min = 10 (VT=1,0) Value max = 10000 (VT=1000.0)

Important note:

- The product (CT ratio)x(VT ratio) shall be automatically limited to prevent overflow of kW indication on the meter
- The product (CT ratio)x(VT ratio) shall be automatically limited in MID versions to prevent the rollover of the kWh meter before 4000 h, as stated in MID regulation.

2.7.4 Dmd and pulse outs configuration menu

MODBUS: read and write mode

Table 2.7

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
	1010h	2	Integration time for dmd power calculation	UINT 32	Value min = 1 Value max = 30
	1012h	2	Ton (Ton time for pulse output square wave)	UINT 32	Value min = 0 (30ms) Value max = 1 (100 ms)
	1020h	2	kWh per pulse relevant to digital out 1 (if existing)	UINT 32	
	1022h	2	kWh per pulse relevant to digital out 2 (if existing)	UINT 32	

2.7.5 Other functions configuration menu

MODBUS: read and write mode

Table 2.7

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
304353	1100h	1	Display mode	UINT 16	Value min = 0 (Full, default) Value max = 1 (Easy) Any other value = Full
304354	1101h	1	Tariff management enabling	UINT 16	Value min = 0 (OFF) Value max = 1 (ON) Any other value = OFF
304355	1102h	1	Home page selection (EM only)	UINT 16	Value min = 0 (page 0, default) Value max = 19 (page 19) Restrictions in case of display mode = Easy Any other value = page 0 In ET always = 0
304356	1103h	1	Measurement mode selection	UINT 16	Value min = 0 (A) Value max = 1 (B) Any other value = A
304357	1104h	1	Wrong connection (Installing help) management enabling	UINT 16	Value min = 0 (ON) Value max = 1 (OFF) Any other value = ON
304358	1105h	1	Wrong connection (installing help) status	UINT 16	Bit 0 = 1 means: Wrong voltage sequence Bit 1 = 1 means: Phase 1 inverted Bit 2 = 1 means: Phase 2 inverted Bit 3 = 1 means: Phase 3 inverted Bit 4 = 1 means: Phases 1 and 2 exchanged Bit 5 = 1 means: Phases 1 and 3 exchanged Bit 6 = 1 means: Phases 2 and 3 exchanged Bit 7 = 1 means: Phases 1, 2, 3 exchanged In EM/ET330 only a bit at a time can be 1. In EM/ET340 more bits can be 1. In any case a sequence of wiring modifications is needed until the wiring is correct (all bit=0)
304359	1106h	1	THD calculation enabling	UINT 16	Value min = 0 (OFF) Value max = 1 (ON) = DEFAULT Any other value = OFF
304360	1107h	2	Start-up current of the hour counter meter	UINT 32	Value weight: Ampere*1000 Value min = 10 Value max = 6000 Defult value = 10

2.7.6 Active tariff selection

MODBUS: read and write mode

Table 2.7

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
304608	1200h	1	Tariff mode selection (tariff management via digital input or serial comm.)	UINT 16	Value min = 0 (via digital inputs) Value max = 1 (via serial comm.) Any other value = via digital in.
304609	1201h	1	Tariff number selection via serial comm. Current tariff (EM341)	UINT 16	Value min = 1 (tariff 1) Value max = 2 (tariff 2) Any other value = tariff 1 If 1200h = 0 (tariff via digital input), this parameter is "read only" mode EM341: 0=tar 1 1=tar 2 2=tar 3 3=tar 4 Any other value=tar 1 this parameter is "read only" mode

2.7.7 Serial port configuration menu

MODBUS: read and write mode

Table 2.8-7

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
308193	2000h	1	RS485 instrument address	UINT 16	Value min = 1 (default) Value max = 247 Any other value = 1
308194	2001h	1	RS485 baud rate	UINT 16	Value 1 = 9.6 kbps (default) Value 2 = 19.2 kbps Value 3 = 38.4 kbps Value 4 = 57.6 kbps Value 5 = 115.2 kbps Any other value = 9.6 kbps
308195	2002h	1	RS485 parity	UINT 16	Value 1= no parity (default) Value 2 = even parity Any other value = no parity
308196	2003h	1	RS485 Stop bit	UINT 16	Value 0 = 1 stop bit Value 1= 1 (default) Value 2 =2 (only if parity is even) Any other value = 1 stop bit
308197	2004h	1	Max number of words readable with a single Modbus request	UINT 16	Value = 50 (words)
308198	2005h	1	Intentional response delay	UINT 16	Value min=0 Value max=500 Default:50 Any other value = 0 (no intentional response time delay)

Note: The number of stop bits is fixed to "1" if parity is EVEN.

2.7.8 Reset commands

MODBUS: read and write mode

Table 2.8-8

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
316385	4000h	1	Reset of all partial and tariff meters, kWdmd and kWdmdm peak (and hourcounter meter in EM210)	UINT 16	Value=0: reset done Value=1: execute the command All other values produce no effects
316386	4001h	1	Reset of total energy meters (only for non-MID versions, X option)	UINT 16	Value=0: reset done Value=1: execute the command All other values produce no effects
316387	4002h	1	Reset of hour counter (ET330 and ET340)	UINT 16	Value=0: reset done Value=1: execute the command All other values produce no effects

2.7.9 Serial number

MODBUS: read only mode Table 2.8-9

Modicom address	Physical address	Length (words)	VARIABLE ENG. UNIT	Data Format	Notes
320481	5000h	1	Letter 1 (from SX) Letter 2 (from SX)		MSB: ASCII code LSB: ASCII code
320482	5001h	1	Letter 3 (from SX) Letter 4 (from SX)		MSB: ASCII code LSB: ASCII code
320483	5002h	1	Letter 5 (from SX) Letter 6 (from SX)		MSB: ASCII code LSB: ASCII code
320484	5003h	1	Letter 7 (from SX) Letter 8 (from SX)		MSB: ASCII code LSB: ASCII code
320485	5004h	1	Letter 9 (from SX) Letter 10 (from SX)		MSB: ASCII code LSB: ASCII code
320486	5005h	1	Letter 11 (from SX) Letter 12 (from SX)		MSB: ASCII code LSB: ASCII code
320487	5006h	1	Letter 13 (from SX)		MSB: ASCII code

2.7.10 Note

The default value shall be automatically assigned to the parameters when an out-of-range or invalid value is written.

2.8 EM331 additional parameters

2.8.1 Date/hour configuration

2.8.1.1 ***Date configuration***

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6510h	1	Clockcalendar:Year	UINT16	2009÷2099
	6511h	1	Clockcalendar:Month	UINT16	1÷12
	6512h	1	Clockcalendar:Day	UINT16	1÷31

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.1.2 ***Hour configuration***

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6513h	1	Clock:Hour	UINT16	0÷23
	6514h	1	Clock:Minutes	UINT16	0÷59
	6515h	1	Clock:Seconds	UINT16	0÷59

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.1.3 ***Legal/solar time activation***

	6517h	1	Automatic legal/solar time setting	UINT16	Value=0: OFF Value=1: ISr(default) Value=2: Custom Any other Value=ISr

2.8.1.4 ***Legal/solar time settings***

	6530h		Solar to legal, month		"1÷12
	6531h		Solar to legal, week		1: 1st 2: 2nd 3: 3rd 4: 4th 5: last Any other Value = last
	6532h		Solar to legal, day		0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday Any other Value = Sunday
	6533h		Solar to legal, hour		0÷23
	6534h		Legal to solar, month		"1÷12
	6535h		Legal to solar, week		1: 1st 2: 2nd 3: 3rd 4: 4th 5: last Any other Value = last
	6536h		Legal to solar, day		0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday Any other Value = Sunday
	6537h		Legal to solar, hour		0÷23

2.8.1.5 ***Legal/solar time status (ONLY READ)***

	6538h		SolarLegalCurrentDay		1÷31
	6539h		CurrentSolarorLegal		1 : Solar 2 : Legal

2.8.2 Current status (ONLY READ)

	6518h	1	Output Status	UINT16	Bit0 Alarm1:0 (OFF) or 1 (ON) Bit1 Alarm1:0 (OPEN) or 1 (CLOSED) Bit2 Alarm2: 0 (OFF) or 1 (ON) Bit3 Alarm2: 0 (OPEN) or 1 (CLOSED)
	6519h	1	current season (period of the year)	UINT16	Value=0: Spring Value=1: Summer Value=2: Autumn Value=3: Winter Any other Value= Spring
	651Ah	1	current day type	UINT16	Value=1: Working Days Value=2: Festive Days Value=3: Pre_Festive Days Any other Value= Working Days
	651Bh	1	current time slot	UINT16	Value=0: slot1 Value=1: slot2 Value=2: slot3 Value=3: slot4 Value=4: slot5 Value=5: slot6 Any other Value= No slot

2.8.3 Installation date

	651Ch	1	INSTALLATION DATE:Year	UINT16	Bit0 Alarm1:0 (OFF) or 1 (ON) Bit1 Alarm1:0 (OPEN) or 1 (CLOSED) Bit2 Alarm2: 0 (OFF) or 1 (ON) Bit3 Alarm2: 0 (OPEN) or 1 (CLOSED)
	651Dh	1	INSTALLATION DATE:Month	UINT16	Value=0: Spring Value=1: Summer Value=2: Autumn Value=3: Winter Any other Value= Spring
	651Eh	1	INSTALLATION DATE:Day	UINT16	Value=1: Working Days Value=2: Festive Days Value=3: Pre_Festive Days Any other Value= Working Days

2.8.4 Outputs configuration

2.8.4.1 ***Output function selection***

	Physical address	**Length (words)**	**VARIABLE**	**Data Format**	**Notes**
	651Fh	1	Outputs remote control		Bit value:0 = OFF Bit value:1 = ON bit0:Remote1 bit1:Remote2
	6520h	1	Output 1 function	UINT16	Value=0: kWh+ (default) Value=1: kWh- Value=2: kWhL1 pulse Value=3: Alarm 1 Value=4:Remote 1 Any other Value= kWh+
	6521h	1	Output 2 function	UINT16	Value=0: kWh+ (default) Value=1: kWh- Value=2: kWhL2 pulse Value=3: Alarm 2 Value=4:Remote 2 Any other Value= kWh-

2.8.4.2 ***Pulse 1 configuration***

	Physical address	**Length (words)**	**VARIABLE**	**Data Format**	**Notes**
	6522h	1	Pulse 1	UINT16	Value=0: 30ms Value=1: 100ms (default) Any other Value=30ms
	6523h	1	Pulse 1 rate	UINT16	30ms Value=10 ~ 1500 100ms Value=10 ~ 500 (default:10)

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY

CHANGES.

.

2.8.4.3 *Pulse 2 configuaration*

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6524h	1	Pulse 2	UINT16	Value=0: 30ms Value=1: 100ms Any other Value=30ms (default)
	6525h	1	Pulse 2 rate	UINT16	30ms Value=100 ~ 1500 100ms Value=100 ~ 500 (default:10)

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.4.4 *Alarm 1 configuaration*

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6526h	1		UINT16	Value = 0:kw System (default) Value = 1:V L-L SyS Value = 2:V L-N SyS Value = 3:PF System Value = 4:Hz Value = 5:kvAr System Value = 6:kvA System Value = 7:kw dmd Value = 8:kvA L1 Value = 9:kvA L2 Value = 10:kvA L3 Value = 11:kvar L1 Value = 12:kvar L2 Value = 13:kvar L3 Value = 14:PF L1 Value = 15:PF L2 Value = 16:PF L3 Value = 17:V L-N L1 Value = 18:V L-N L2 Value = 19:V L-N L3 Value = 20:V L-L L12 Value = 21:V L-L L23 Value = 22:V L-L L31 Value = 23:A L1 Value = 24:A L2 Value = 25:A L3 Value = 26:kw L1 Value = 27:kw L2 Value = 28:kw L3 Any other Value = kw System
	6527h	1	Set 1	UINT16	Value=000.0~999.9 S (default: 0.0)
	6528h	1	Set 2	UINT16	Value=000.0~999.9 S (default: 0.0)
	6529h	1	Delay	UINT16	Value=1~255 S (default: 1S)
	652Ah	1	Status	UINT16	Value=0: normally de-energised(nd) (default) Value=1: normally energised(nE) Any other Value=normally de-energised(nd)

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.4.5 *Alarm 2 configuaration*

	Physical address	Length (words)	VARIABLE	Data Format	Notes

	652Bh	1	Alarm 2	UINT16	Value = 0:kw System (default) Value = 1:V L-L SyS Value = 2:V L-N SyS Value = 3:PF System Value = 4:Hz Value = 5:kvAr System Value = 6:kvA System Value = 7:kw dmd Value = 8:kvA L1 Value = 9:kvA L2 Value = 10:kvA L3 Value = 11:kvar L1 Value = 12:kvar L2 Value = 13:kvar L3 Value = 14:PF L1 Value = 15:PF L2 Value = 16:PF L3 Value = 17:V L-N L1 Value = 18:V L-N L2 Value = 19:V L-N L3 Value = 20:V L-L L12 Value = 21:V L-L L23 Value = 22:V L-L L31 Value = 23:A L1 Value = 24:A L2 Value = 25:A L3 Value = 26:kw L1 Value = 27:kw L2 Value = 28:kw L3 Any other Value = kw System
	652Ch	1	Set 1	UINT16	Value=000.0~999.9 S (default: 0.0)
	652Dh	1	Set 2	UINT16	Value=000.0~999.9 S (default: 0.0)
	652Eh	1	Delay	UINT16	Value=1~255 S (default: 1S)
	652Fh	1	Status	UINT16	Value=0: normally de-energised(nd) (default) Value=1: normally energised(nE) Any other Value=normally de-energised(nd)

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.5 Working/pre-festive/festive and default tariff configuration

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6000h	1	Working Days	UINT16	Bit value: 1, working day Bit value: 0, non-working day Bit position (LSB concept) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday
	6001h	1	Pre_Festive Days	UINT16	Bit value: 1, working day Bit value: 0, non-working day Bit position (LSB concept) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday
	6002h	1	Festive Days	UINT16	Bit value: 1, working day Bit value: 0, non-working day Bit position (LSB concept) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday
	6003h	1	Default tariff	UINT16	Value=0: tariff 1 Value=1: tariff 2 Value=2: tariff 3 Value=3: tariff 4 Value=4 or >4: disabled

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY

CHANGES.

2.8.6 Calendar periods configuration

2.8.6.1 Period 1

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6004h	1	CalendarPeriod 1st Start	UINT16	"Format: mmdd Value < 101: disabled mm = 12 dd = 26 Value = 1226"
	6005h	1	CalendarPeriod 1nd Stop	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.6.2 Period 2

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6006h	1	CalendarPeriod 2nd Start	UINT16	"Format: mmdd Value < 101: disabled mm = 12 dd = 26 Value = 1226"
	6007h	1	CalendarPeriod 2nd Stop	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.6.3 Period 3

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6008h	1	CalendarPeriod 3rd Start	UINT16	"Format: mmdd Value < 101: disabled mm = 12 dd = 26 Value = 1226"
	6009h	1	CalendarPeriod 3rd Stop	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.6.4 Period 4

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	600Ah	1	CalendarPeriod 4th Start	UINT16	"Format: mmdd Value < 101: disabled mm = 12 dd = 26 Value = 1226"
	600Bh	1	CalendarPeriod 4th Stop	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7 Calendar period tariff slots configuration

2.8.7.1 Working days period 1

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6010h	1	CalendarPeriod 1st Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	6011h	1	CalendarPeriod 1st Slot1 Stop	UINT16	
	6012h	1	CalendarPeriod 1st Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled

	6013h	1	CalendarPeriod 1st Slot2 Start	UINT16	etc.
	6014h	1	CalendarPeriod 1st Slot2 Stop	UINT16	
	6015h	1	CalendarPeriod 1st Slot2 Tariff	UINT16	
	6016h	1	CalendarPeriod 1st Slot3 Start	UINT16	
	6017h	1	CalendarPeriod 1st Slot3 Stop	UINT16	
	6018h	1	CalendarPeriod 1st Slot3 Tariff	UINT16	
	6019h	1	CalendarPeriod 1st Slot4 Start	UINT16	
	601Ah	1	CalendarPeriod 1st Slot4 Stop	UINT16	
	601Bh	1	CalendarPeriod 1st Slot4 Tariff	UINT16	
	601Ch	1	CalendarPeriod 1st Slot5 Start	UINT16	
	601Dh	1	CalendarPeriod 1st Slot5 Stop	UINT16	
	601Eh	1	CalendarPeriod 1st Slot5 Tariff	UINT16	
	601Fh	1	CalendarPeriod 1st Slot6 Start	UINT16	
	6020h	1	CalendarPeriod 1st Slot6 Stop	UINT16	
	6021h	1	CalendarPeriod 1st Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.2 Working days period 2

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6022h	1	CalendarPeriod 2nd Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	6023h	1	CalendarPeriod 2nd Slot1 Stop	UINT16	
	6024h	1	CalendarPeriod 2nd Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	6025h	1	CalendarPeriod 2nd Slot2 Start	UINT16	etc.
	6026h	1	CalendarPeriod 2nd Slot2 Stop	UINT16	
	6027h	1	CalendarPeriod 2nd Slot2 Tariff	UINT16	
	6028h	1	CalendarPeriod 2nd Slot3 Start	UINT16	
	6029h	1	CalendarPeriod 2nd Slot3 Stop	UINT16	
	602Ah	1	CalendarPeriod 2nd Slot3 Tariff	UINT16	
	602Bh	1	CalendarPeriod 2nd Slot4 Start	UINT16	
	602Ch	1	CalendarPeriod 2nd Slot4 Stop	UINT16	
	602Dh	1	CalendarPeriod 2nd Slot4 Tariff	UINT16	

	602Eh	1	CalendarPeriod 2nd Slot5 Start	UINT16	
	602Fh	1	CalendarPeriod 2nd Slot5 Stop	UINT16	
	6030h	1	CalendarPeriod 2nd Slot5 Tariff	UINT16	
	6031h	1	CalendarPeriod 2nd Slot6 Start	UINT16	
	6032h	1	CalendarPeriod 2nd Slot6 Stop	UINT16	
	6033h	1	CalendarPeriod 2nd Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.3 Working days period 3

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6034h	1	CalendarPeriod 3rd Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	6035h	1	CalendarPeriod 3rd Slot1 Stop	UINT16	
	6036h	1	CalendarPeriod 3rd Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	6037h	1	CalendarPeriod 3rd Slot2 Start	UINT16	etc.
	6038h	1	CalendarPeriod 3rd Slot2 Stop	UINT16	
	6039h	1	CalendarPeriod 3rd Slot2 Tariff	UINT16	
	603Ah	1	CalendarPeriod 3rd Slot3 Start	UINT16	
	603Bh	1	CalendarPeriod 3rd Slot3 Stop	UINT16	
	603Ch	1	CalendarPeriod 3rd Slot3 Tariff	UINT16	
	603Dh	1	CalendarPeriod 3rd Slot4 Start	UINT16	
	603Eh	1	CalendarPeriod 3rd Slot4 Stop	UINT16	
	603Fh	1	CalendarPeriod 3rd Slot4 Tariff	UINT16	
	6040h	1	CalendarPeriod 3rd Slot5 Start	UINT16	
	6041h	1	CalendarPeriod 3rd Slot5 Stop	UINT16	
	6042h	1	CalendarPeriod 3rd Slot5 Tariff	UINT16	
	6043h	1	CalendarPeriod 3rd Slot6 Start	UINT16	
	6044h	1	CalendarPeriod 3rd Slot6 Stop	UINT16	
	6045h	1	CalendarPeriod 3rd Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.4 Working days period 4

	Physical address	Length (words)	VARIABLE	Data Format	Notes

	6046h	1	CalendarPeriod 4th Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	6047h	1	CalendarPeriod 4th Slot1 Stop	UINT16	
	6048h	1	CalendarPeriod 4th Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	6049h	1	CalendarPeriod 4th Slot2 Start	UINT16	etc.
	604Ah	1	CalendarPeriod 4th Slot2 Stop	UINT16	
	604Bh	1	CalendarPeriod 4th Slot2 Tariff	UINT16	
	604Ch	1	CalendarPeriod 4th Slot3 Start	UINT16	
	604Dh	1	CalendarPeriod 4th Slot3 Stop	UINT16	
	604Eh	1	CalendarPeriod 4th Slot3 Tariff	UINT16	
	604Fh	1	CalendarPeriod 4th Slot4 Start	UINT16	
	6050h	1	CalendarPeriod 4th Slot4 Stop	UINT16	
	6051h	1	CalendarPeriod 4th Slot4 Tariff	UINT16	
	6052h	1	CalendarPeriod 4th Slot5 Start	UINT16	
	6053h	1	CalendarPeriod 4th Slot5 Stop	UINT16	
	6054h	1	CalendarPeriod 4th Slot5 Tariff	UINT16	
	6055h	1	CalendarPeriod 4th Slot6 Start	UINT16	
	6056h	1	CalendarPeriod 4th Slot6 Stop	UINT16	
	6057h	1	CalendarPeriod 4th Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.5 Pre-festive days period 1

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	6058h	1	Pre-Festive 1st Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	6059h	1	Pre-Festive 1st Slot1 Stop	UINT16	
	605Ah	1	Pre-Festive 1st Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	605Bh	1	Pre-Festive 1st Slot2 Start	UINT16	etc.
	605Ch	1	Pre-Festive 1st Slot2 Stop	UINT16	
	605Dh	1	Pre-Festive 1st Slot2 Tariff	UINT16	
	605Eh	1	Pre-Festive 1st Slot3 Start	UINT16	
	605Fh	1	Pre-Festive 1st Slot3 Stop	UINT16	
	6060h	1	Pre-Festive 1st Slot3 Tariff	UINT16	
	6061h	1	Pre-Festive 1st Slot4 Start	UINT16	

	6062h	1	Pre-Festive 1st Slot4 Stop	UINT16	
	6063h	1	Pre-Festive 1st Slot4 Tariff	UINT16	
	6064h	1	Pre-Festive 1st Slot5 Start	UINT16	
	6065h	1	Pre-Festive 1st Slot5 Stop	UINT16	
	6066h	1	Pre-Festive 1st Slot5 Tariff	UINT16	
	6067h	1	Pre-Festive 1st Slot6 Start	UINT16	
	6068h	1	Pre-Festive 1st Slot6 Stop	UINT16	
	6069h	1	Pre-Festive 1st Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.6 Pre-festive days period 2

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	606Ah	1	Pre-Festive 2nd Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	606Bh	1	Pre-Festive 2nd Slot1 Stop	UINT16	
	606Ch	1	Pre-Festive 2nd Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	606Dh	1	Pre-Festive 2nd Slot2 Start	UINT16	etc.
	606Eh	1	Pre-Festive 2nd Slot2 Stop	UINT16	
	606Fh	1	Pre-Festive 2nd Slot2 Tariff	UINT16	
	6070h	1	Pre-Festive 2nd Slot3 Start	UINT16	
	6071h	1	Pre-Festive 2nd Slot3 Stop	UINT16	
	6072h	1	Pre-Festive 2nd Slot3 Tariff	UINT16	
	6073h	1	Pre-Festive 2nd Slot4 Start	UINT16	
	6074h	1	Pre-Festive 2nd Slot4 Stop	UINT16	
	6075h	1	Pre-Festive 2nd Slot4 Tariff	UINT16	
	6076h	1	Pre-Festive 2nd Slot5 Start	UINT16	
	6077h	1	Pre-Festive 2nd Slot5 Stop	UINT16	
	6078h	1	Pre-Festive 2nd Slot5 Tariff	UINT16	
	6079h	1	Pre-Festive 2nd Slot6 Start	UINT16	
	607Ah	1	Pre-Festive 2nd Slot6 Stop	UINT16	
	607Bh	1	Pre-Festive 2nd Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.7 Pre-festive days period 3

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	607Ch	1	Pre-Festive 3rd Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	607Dh	1	Pre-Festive 3rd Slot1 Stop	UINT16	
	607Eh	1	Pre-Festive 3rd Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	607Fh	1	Pre-Festive 3rd Slot2 Start	UINT16	etc.
	6080h	1	Pre-Festive 3rd Slot2 Stop	UINT16	
	6081h	1	Pre-Festive 3rd Slot2 Tariff	UINT16	
	6082h	1	Pre-Festive 3rd Slot3 Start	UINT16	
	6083h	1	Pre-Festive 3rd Slot3 Stop	UINT16	
	6084h	1	Pre-Festive 3rd Slot3 Tariff	UINT16	
	6085h	1	Pre-Festive 3rd Slot4 Start	UINT16	
	6086h	1	Pre-Festive 3rd Slot4 Stop	UINT16	
	6087h	1	Pre-Festive 3rd Slot4 Tariff	UINT16	
	6088h	1	Pre-Festive 3rd Slot5 Start	UINT16	
	6089h	1	Pre-Festive 3rd Slot5 Stop	UINT16	
	608Ah	1	Pre-Festive 3rd Slot5 Tariff	UINT16	
	608Bh	1	Pre-Festive 3rd Slot6 Start	UINT16	
	608Ch	1	Pre-Festive 3rd Slot6 Stop	UINT16	
	608Dh	1	Pre-Festive 3rd Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.8 Pre-festive days period 4

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	608Eh	1	Pre-Festive 4th Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	608Fh	1	Pre-Festive 4th Slot1 Stop	UINT16	
	6090h	1	Pre-Festive 4th Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	6091h	1	Pre-Festive 4th Slot2 Start	UINT16	etc.
	6092h	1	Pre-Festive 4th Slot2 Stop	UINT16	
	6093h	1	Pre-Festive 4th Slot2 Tariff	UINT16	
	6094h	1	Pre-Festive 4th Slot3 Start	UINT16	
	6095h	1	Pre-Festive 4th Slot3 Stop	UINT16	

	6096h	1	Pre-Festive 4th Slot3 Tariff	UINT16	
	6097h	1	Pre-Festive 4th Slot4 Start	UINT16	
	6098h	1	Pre-Festive 4th Slot4 Stop	UINT16	
	6099h	1	Pre-Festive 4th Slot4 Tariff	UINT16	
	609Ah	1	Pre-Festive 4th Slot5 Start	UINT16	
	609Bh	1	Pre-Festive 4th Slot5 Stop	UINT16	
	609Ch	1	Pre-Festive 4th Slot5 Tariff	UINT16	
	609Dh	1	Pre-Festive 4th Slot6 Start	UINT16	
	609Eh	1	Pre-Festive 4th Slot6 Stop	UINT16	
	609Fh	1	Pre-Festive 4th Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.9 Festive days period 1

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	60A0h	1	Festive 1st Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	60A1h	1	Festive 1st Slot1 Stop	UINT16	
	60A2h	1	Festive 1st Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	60A3h	1	Festive 1st Slot2 Start	UINT16	etc.
	60A4h	1	Festive 1st Slot2 Stop	UINT16	
	60A5h	1	Festive 1st Slot2 Tariff	UINT16	
	60A6h	1	Festive 1st Slot3 Start	UINT16	
	60A7h	1	Festive 1st Slot3 Stop	UINT16	
	60A8h	1	Festive 1st Slot3 Tariff	UINT16	
	60A9h	1	Festive 1st Slot4 Start	UINT16	
	60AAh	1	Festive 1st Slot4 Stop	UINT16	
	60ABh	1	Festive 1st Slot4 Tariff	UINT16	
	60ACh	1	Festive 1st Slot5 Start	UINT16	
	60ADh	1	Festive 1st Slot5 Stop	UINT16	
	60AEh	1	Festive 1st Slot5 Tariff	UINT16	
	60AFh	1	Festive 1st Slot6 Start	UINT16	
	60B0h	1	Festive 1st Slot6 Stop	UINT16	
	60B1h	1	Festive 1st Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.10 Festive days period 2

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	60B2h	1	Festive 2nd Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	60B3h	1	Festive 2nd Slot1 Stop	UINT16	
	60B4h	1	Festive 2nd Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	60B5h	1	Festive 2nd Slot2 Start	UINT16	etc.
	60B6h	1	Festive 2nd Slot2 Stop	UINT16	
	60B7h	1	Festive 2nd Slot2 Tariff	UINT16	
	60B8h	1	Festive 2nd Slot3 Start	UINT16	
	60B9h	1	Festive 2nd Slot3 Stop	UINT16	
	60BAh	1	Festive 2nd Slot3 Tariff	UINT16	
	60BBh	1	Festive 2nd Slot4 Start	UINT16	
	60BCh	1	Festive 2nd Slot4 Stop	UINT16	
	60BDh	1	Festive 2nd Slot4 Tariff	UINT16	
	60BEh	1	Festive 2nd Slot5 Start	UINT16	
	60BFh	1	Festive 2nd Slot5 Stop	UINT16	
	60C0h	1	Festive 2nd Slot5 Tariff	UINT16	
	60C1h	1	Festive 2nd Slot6 Start	UINT16	
	60C2h	1	Festive 2nd Slot6 Stop	UINT16	
	60C3h	1	Festive 2nd Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.7.11 Festive days period 3

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	60C4h	1	Festive 3rd Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	60C5h	1	Festive 3rd Slot1 Stop	UINT16	
	60C6h	1	Festive 3rd Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	60C7h	1	Festive 3rd Slot2 Start	UINT16	etc.
	60C8h	1	Festive 3rd Slot2 Stop	UINT16	

	60C9h	1	Festive 3rd Slot2 Tariff	UINT16	
	60CAh	1	Festive 3rd Slot3 Start	UINT16	
	60CBh	1	Festive 3rd Slot3 Stop	UINT16	
	60CCh	1	Festive 3rd Slot3 Tariff	UINT16	
	60CDh	1	Festive 3rd Slot4 Start	UINT16	
	60CEh	1	Festive 3rd Slot4 Stop	UINT16	
	60CFh	1	Festive 3rd Slot4 Tariff	UINT16	
	60D0h	1	Festive 3rd Slot5 Start	UINT16	
	60D1h	1	Festive 3rd Slot5 Stop	UINT16	
	60D2h	1	Festive 3rd Slot5 Tariff	UINT16	
	60D3h	1	Festive 3rd Slot6 Start	UINT16	
	60D4h	1	Festive 3rd Slot6 Stop	UINT16	
	60D5h	1	Festive 3rd Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

.

2.8.7.12 Festive days period 4

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	60D6h	1	Festive 4th Slot1 Start	UINT16	Format: hhmm (24h format) hh = 23 dd = 59 Value = 2359
	60D7h	1	Festive 4th Slot1 Stop	UINT16	
	60D8h	1	Festive 4th Slot1 Tariff	UINT16	Value=0: tariff 1; Value=1: tariff 2; Value=2: tariff 3; Value=3: tariff 4; Value=4: disabled
	60D9h	1	Festive 4th Slot2 Start	UINT16	etc.
	60DAh	1	Festive 4th Slot2 Stop	UINT16	
	60DBh	1	Festive 4th Slot2 Tariff	UINT16	
	60DCh	1	Festive 4th Slot3 Start	UINT16	
	60DDh	1	Festive 4th Slot3 Stop	UINT16	
	60DEh	1	Festive 4th Slot3 Tariff	UINT16	
	60DFh	1	Festive 4th Slot4 Start	UINT16	
	60E0h	1	Festive 4th Slot4 Stop	UINT16	
	60E1h	1	Festive 4th Slot4 Tariff	UINT16	
	60E2h	1	Festive 4th Slot5 Start	UINT16	
	60E3h	1	Festive 4th Slot5 Stop	UINT16	
	60E4h	1	Festive 4th Slot5 Tariff	UINT16	

	60E5h	1	Festive 4th Slot6 Start	UINT16	
	60E6h	1	Festive 4th Slot6 Stop	UINT16	
	60E7h	1	Festive 4th Slot6 Tariff	UINT16	

NOTE: ALL THE PARAMETERS OF THE TABLE MUST BE WRITTEN, ONE BY ONE IN SEQUENCE, TO APPLY CHANGES.

2.8.8 Holiday configuration

2.8.8.1 Start year

	Physical address	Length (words)	VARIABLE	Data Format	Notes
	60E8h	1	Holiday (Set Start Year)	UINT16	Value = 2000 - 2099 if Value = 2015 Scope Year:2015-2025 if Value = 2017 Scope Year:2017-2027

2.8.8.2 Read / write holiday fixed

60E9h	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
60EAh	1	Holiday1 Stop	UINT16	
60EBh	1	Holiday2 Start	UINT16	
60ECh	1	Holiday2 Stop	UINT16	
60EDh	1	Holiday3 Start	UINT16	
60EEh	1	Holiday3 Stop	UINT16	
60EFh	1	Holiday4 Start	UINT16	
60F0h	1	Holiday4 Stop	UINT16	
60F1h	1	Holiday5 Start	UINT16	
60F2h	1	Holiday5 Stop	UINT16	
60F3h	1	Holiday6 Start	UINT16	
60F4h	1	Holiday6 Stop	UINT16	
60F5h	1	Holiday7 Start	UINT16	
60F6h	1	Holiday7 Stop	UINT16	
60F7h	1	Holiday8 Start	UINT16	
60F8h	1	Holiday8 Stop	UINT16	
60F9h	1	Holiday9 Start	UINT16	

60FAh	1	Holiday9 Stop	UINT16	
60FBh	1	Holiday10 Start	UINT16	
60FCh	1	Holiday10 Stop	UINT16	
60FDh	1	Holiday11 Start	UINT16	
60FEh	1	Holiday11 Stop	UINT16	
60FFh	1	Holiday12 Start	UINT16	
6100h	1	Holiday12 Stop	UINT16	
6101h	1	Holiday13 Start	UINT16	
6102h	1	Holiday13 Stop	UINT16	
6103h	1	Holiday14 Start	UINT16	
6104h	1	Holiday14 Stop	UINT16	
6105h	1	Holiday15 Start	UINT16	
6106h	1	Holiday15 Stop	UINT16	
6107h	1	Holiday16 Start	UINT16	
6108h	1	Holiday16 Stop	UINT16	
6109h	1	Holiday17 Start	UINT16	
610Ah	1	Holiday17 Stop	UINT16	
610Bh	1	Holiday18 Start	UINT16	
610Ch	1	Holiday18 Stop	UINT16	
610Dh	1	Holiday19 Start	UINT16	
610Eh	1	Holiday19 Stop	UINT16	
610Fh	1	Holiday20 Start	UINT16	

6110h	1	Holiday20 Stop	UINT16	
6111h	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive enabling

2.8.8.3 Read / write holiday year 1

	6113h	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	6114h	1	Holiday1 Stop	UINT16	
	6115h	1	Holiday2 Start	UINT16	
	6116h	1	Holiday2 Stop	UINT16	
	6117h	1	Holiday3 Start	UINT16	
	6118h	1	Holiday3 Stop	UINT16	
	6119h	1	Holiday4 Start	UINT16	
	611Ah	1	Holiday4 Stop	UINT16	
	611Bh	1	Holiday5 Start	UINT16	
	611Ch	1	Holiday5 Stop	UINT16	
	611Dh	1	Holiday6 Start	UINT16	
	611Eh	1	Holiday6 Stop	UINT16	
	611Fh	1	Holiday7 Start	UINT16	
	6120h	1	Holiday7 Stop	UINT16	
	6121h	1	Holiday8 Start	UINT16	
	6122h	1	Holiday8 Stop	UINT16	
	6123h	1	Holiday9 Start	UINT16	
	6124h	1	Holiday9 Stop	UINT16	

	6125h	1	Holiday10 Start	UINT16	
	6126h	1	Holiday10 Stop	UINT16	
	6127h	1	Holiday11 Start	UINT16	
	6128h	1	Holiday11 Stop	UINT16	
	6129h	1	Holiday12 Start	UINT16	
	612Ah	1	Holiday12 Stop	UINT16	
	612Bh	1	Holiday13 Start	UINT16	
	612Ch	1	Holiday13 Stop	UINT16	
	612Dh	1	Holiday14 Start	UINT16	
	612Eh	1	Holiday14 Stop	UINT16	
	612Fh	1	Holiday15 Start	UINT16	
	6130h	1	Holiday15 Stop	UINT16	
	6131h	1	Holiday16 Start	UINT16	
	6132h	1	Holiday16 Stop	UINT16	
	6133h	1	Holiday17 Start	UINT16	
	6134h	1	Holiday17 Stop	UINT16	
	6135h	1	Holiday18 Start	UINT16	
	6136h	1	Holiday18 Stop	UINT16	
	6137h	1	Holiday19 Start	UINT16	
	6138h	1	Holiday19 Stop	UINT16	
	6139h	1	Holiday20 Start	UINT16	
	613Ah	1	Holiday20 Stop	UINT16	
	613Bh	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling

					18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive enabling

2.8.8.4 Read / write holiday year 2

	613Dh	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	613Eh	1	Holiday1 Stop	UINT16	
	613Fh	1	Holiday2 Start	UINT16	
	6140h	1	Holiday2 Stop	UINT16	
	6141h	1	Holiday3 Start	UINT16	
	6142h	1	Holiday3 Stop	UINT16	
	6143h	1	Holiday4 Start	UINT16	
	6144h	1	Holiday4 Stop	UINT16	
	6145h	1	Holiday5 Start	UINT16	
	6146h	1	Holiday5 Stop	UINT16	
	6147h	1	Holiday6 Start	UINT16	
	6148h	1	Holiday6 Stop	UINT16	
	6149h	1	Holiday7 Start	UINT16	
	614Ah	1	Holiday7 Stop	UINT16	
	614Bh	1	Holiday8 Start	UINT16	
	614Ch	1	Holiday8 Stop	UINT16	
	614Dh	1	Holiday9 Start	UINT16	
	614Eh	1	Holiday9 Stop	UINT16	
	614Fh	1	Holiday10 Start	UINT16	

	6150h	1	Holiday10 Stop	UINT16	
	6151h	1	Holiday11 Start	UINT16	
	6152h	1	Holiday11 Stop	UINT16	
	6153h	1	Holiday12 Start	UINT16	
	6154h	1	Holiday12 Stop	UINT16	
	6155h	1	Holiday13 Start	UINT16	
	6156h	1	Holiday13 Stop	UINT16	
	6157h	1	Holiday14 Start	UINT16	
	6158h	1	Holiday14 Stop	UINT16	
	6159h	1	Holiday15 Start	UINT16	
	615Ah	1	Holiday15 Stop	UINT16	
	615Bh	1	Holiday16 Start	UINT16	
	615Ch	1	Holiday16 Stop	UINT16	
	615Dh	1	Holiday17 Start	UINT16	
	615Eh	1	Holiday17 Stop	UINT16	
	615Fh	1	Holiday18 Start	UINT16	
	6160h	1	Holiday18 Stop	UINT16	
	6161h	1	Holiday19 Start	UINT16	
	6162h	1	Holiday19 Stop	UINT16	
	6163h	1	Holiday20 Start	UINT16	
	6164h	1	Holiday20 Stop	UINT16	
	6165h	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive

					enabling

2.8.8.5 Read / write holiday year 3

	6167h	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	6168h	1	Holiday1 Stop	UINT16	
	6169h	1	Holiday2 Start	UINT16	
	616Ah	1	Holiday2 Stop	UINT16	
	616Bh	1	Holiday3 Start	UINT16	
	616Ch	1	Holiday3 Stop	UINT16	
	616Dh	1	Holiday4 Start	UINT16	
	616Eh	1	Holiday4 Stop	UINT16	
	616Fh	1	Holiday5 Start	UINT16	
	6170h	1	Holiday5 Stop	UINT16	
	6171h	1	Holiday6 Start	UINT16	
	6172h	1	Holiday6 Stop	UINT16	
	6173h	1	Holiday7 Start	UINT16	
	6174h	1	Holiday7 Stop	UINT16	
	6175h	1	Holiday8 Start	UINT16	
	6176h	1	Holiday8 Stop	UINT16	
	6177h	1	Holiday9 Start	UINT16	
	6178h	1	Holiday9 Stop	UINT16	
	6179h	1	Holiday10 Start	UINT16	

	617Ah	1	Holiday10 Stop	UINT16	
	617Bh	1	Holiday11 Start	UINT16	
	617Ch	1	Holiday11 Stop	UINT16	
	617Dh	1	Holiday12 Start	UINT16	
	617Eh	1	Holiday12 Stop	UINT16	
	617Fh	1	Holiday13 Start	UINT16	
	6180h	1	Holiday13 Stop	UINT16	
	6181h	1	Holiday14 Start	UINT16	
	6182h	1	Holiday14 Stop	UINT16	
	6183h	1	Holiday15 Start	UINT16	
	6184h	1	Holiday15 Stop	UINT16	
	6185h	1	Holiday16 Start	UINT16	
	6186h	1	Holiday16 Stop	UINT16	
	6187h	1	Holiday17 Start	UINT16	
	6188h	1	Holiday17 Stop	UINT16	
	6189h	1	Holiday18 Start	UINT16	
	618Ah	1	Holiday18 Stop	UINT16	
	618Bh	1	Holiday19 Start	UINT16	
	618Ch	1	Holiday19 Stop	UINT16	
	618Dh	1	Holiday20 Start	UINT16	
	618Eh	1	Holiday20 Stop	UINT16	
	618Fh	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive

					enabling

2.8.8.6 Read / write holiday year 4

	6191h	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	6192h	1	Holiday1 Stop	UINT16	
	6193h	1	Holiday2 Start	UINT16	
	6194h	1	Holiday2 Stop	UINT16	
	6195h	1	Holiday3 Start	UINT16	
	6196h	1	Holiday3 Stop	UINT16	
	6197h	1	Holiday4 Start	UINT16	
	6198h	1	Holiday4 Stop	UINT16	
	6199h	1	Holiday5 Start	UINT16	
	619Ah	1	Holiday5 Stop	UINT16	
	619Bh	1	Holiday6 Start	UINT16	
	619Ch	1	Holiday6 Stop	UINT16	
	619Dh	1	Holiday7 Start	UINT16	
	619Eh	1	Holiday7 Stop	UINT16	
	619Fh	1	Holiday8 Start	UINT16	
	61A0h	1	Holiday8 Stop	UINT16	
	61A1h	1	Holiday9 Start	UINT16	
	61A2h	1	Holiday9 Stop	UINT16	
	61A3h	1	Holiday10 Start	UINT16	

	61A4h	1	Holiday10 Stop	UINT16	
	61A5h	1	Holiday11 Start	UINT16	
	61A6h	1	Holiday11 Stop	UINT16	
	61A7h	1	Holiday12 Start	UINT16	
	61A8h	1	Holiday12 Stop	UINT16	
	61A9h	1	Holiday13 Start	UINT16	
	61AAh	1	Holiday13 Stop	UINT16	
	61ABh	1	Holiday14 Start	UINT16	
	61ACh	1	Holiday14 Stop	UINT16	
	61ADh	1	Holiday15 Start	UINT16	
	61AEh	1	Holiday15 Stop	UINT16	
	61AFh	1	Holiday16 Start	UINT16	
	61B0h	1	Holiday16 Stop	UINT16	
	61B1h	1	Holiday17 Start	UINT16	
	61B2h	1	Holiday17 Stop	UINT16	
	61B3h	1	Holiday18 Start	UINT16	
	61B4h	1	Holiday18 Stop	UINT16	
	61B5h	1	Holiday19 Start	UINT16	
	61B6h	1	Holiday19 Stop	UINT16	
	61B7h	1	Holiday20 Start	UINT16	
	61B8h	1	Holiday20 Stop	UINT16	
	61B9h	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive

					enabling

2.8.8.7 Read / write holiday year 5

	61BBh	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	61BCh	1	Holiday1 Stop	UINT16	
	61BDh	1	Holiday2 Start	UINT16	
	61Beh	1	Holiday2 Stop	UINT16	
	61BFh	1	Holiday3 Start	UINT16	
	61C0h	1	Holiday3 Stop	UINT16	
	61C1h	1	Holiday4 Start	UINT16	
	61C2h	1	Holiday4 Stop	UINT16	
	61C3h	1	Holiday5 Start	UINT16	
	61C4h	1	Holiday5 Stop	UINT16	
	61C5h	1	Holiday6 Start	UINT16	
	61C6h	1	Holiday6 Stop	UINT16	
	61C7h	1	Holiday7 Start	UINT16	
	61C8h	1	Holiday7 Stop	UINT16	
	61C9h	1	Holiday8 Start	UINT16	
	61CAh	1	Holiday8 Stop	UINT16	
	61CBh	1	Holiday9 Start	UINT16	
	61CCh	1	Holiday9 Stop	UINT16	

	61CDh	1	Holiday10 Start	UINT16	
	61CEh	1	Holiday10 Stop	UINT16	
	61CFh	1	Holiday11 Start	UINT16	
	61D0h	1	Holiday11 Stop	UINT16	
	61D1h	1	Holiday12 Start	UINT16	
	61D2h	1	Holiday12 Stop	UINT16	
	61D3h	1	Holiday13 Start	UINT16	
	61D4h	1	Holiday13 Stop	UINT16	
	61D5h	1	Holiday14 Start	UINT16	
	61D6h	1	Holiday14 Stop	UINT16	
	61D7h	1	Holiday15 Start	UINT16	
	61D8h	1	Holiday15 Stop	UINT16	
	61D9h	1	Holiday16 Start	UINT16	
	61DAh	1	Holiday16 Stop	UINT16	
	61DBh	1	Holiday17 Start	UINT16	
	61DCh	1	Holiday17 Stop	UINT16	
	61DDh	1	Holiday18 Start	UINT16	
	61Deh	1	Holiday18 Stop	UINT16	
	61DFh	1	Holiday19 Start	UINT16	
	61E0h	1	Holiday19 Stop	UINT16	
	61E1h	1	Holiday20 Start	UINT16	
	61E2h	1	Holiday20 Stop	UINT16	
	61E3h	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling

					18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive enabling

2.8.8.8 Read / write holiday year 6

	61E5h	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	61E6h	1	Holiday1 Stop	UINT16	
	61E7h	1	Holiday2 Start	UINT16	
	61E8h	1	Holiday2 Stop	UINT16	
	61E9h	1	Holiday3 Start	UINT16	
	61EAh	1	Holiday3 Stop	UINT16	
	61EBh	1	Holiday4 Start	UINT16	
	61ECh	1	Holiday4 Stop	UINT16	
	61EDh	1	Holiday5 Start	UINT16	
	61EEh	1	Holiday5 Stop	UINT16	
	61EFh	1	Holiday6 Start	UINT16	
	61F0h	1	Holiday6 Stop	UINT16	
	61F1h	1	Holiday7 Start	UINT16	
	61F2h	1	Holiday7 Stop	UINT16	
	61F3h	1	Holiday8 Start	UINT16	
	61F4h	1	Holiday8 Stop	UINT16	
	61F5h	1	Holiday9 Start	UINT16	
	61F6h	1	Holiday9 Stop	UINT16	
	61F7h	1	Holiday10 Start	UINT16	

	61F8h	1	Holiday10 Stop	UINT16	
	61F9h	1	Holiday11 Start	UINT16	
	61FAh	1	Holiday11 Stop	UINT16	
	61FBh	1	Holiday12 Start	UINT16	
	61FCh	1	Holiday12 Stop	UINT16	
	61FDh	1	Holiday13 Start	UINT16	
	61FEh	1	Holiday13 Stop	UINT16	
	61FFh	1	Holiday14 Start	UINT16	
	6200h	1	Holiday14 Stop	UINT16	
	6201h	1	Holiday15 Start	UINT16	
	6202h	1	Holiday15 Stop	UINT16	
	6203h	1	Holiday16 Start	UINT16	
	6204h	1	Holiday16 Stop	UINT16	
	6205h	1	Holiday17 Start	UINT16	
	6206h	1	Holiday17 Stop	UINT16	
	6207h	1	Holiday18 Start	UINT16	
	6208h	1	Holiday18 Stop	UINT16	
	6209h	1	Holiday19 Start	UINT16	
	620Ah	1	Holiday19 Stop	UINT16	
	620Bh	1	Holiday20 Start	UINT16	
	620Ch	1	Holiday20 Stop	UINT16	
	620Dh	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive

					enabling

2.8.8.9 Read / write holiday year 7

	620Fh	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	6210h	1	Holiday1 Stop	UINT16	
	6211h	1	Holiday2 Start	UINT16	
	6212h	1	Holiday2 Stop	UINT16	
	6213h	1	Holiday3 Start	UINT16	
	6214h	1	Holiday3 Stop	UINT16	
	6215h	1	Holiday4 Start	UINT16	
	6216h	1	Holiday4 Stop	UINT16	
	6217h	1	Holiday5 Start	UINT16	
	6218h	1	Holiday5 Stop	UINT16	
	6219h	1	Holiday6 Start	UINT16	
	621Ah	1	Holiday6 Stop	UINT16	
	621Bh	1	Holiday7 Start	UINT16	
	621Ch	1	Holiday7 Stop	UINT16	
	621Dh	1	Holiday8 Start	UINT16	
	621Eh	1	Holiday8 Stop	UINT16	
	621Fh	1	Holiday9 Start	UINT16	
	6220h	1	Holiday9 Stop	UINT16	
	6221h	1	Holiday10 Start	UINT16	

	6222h	1	Holiday10 Stop	UINT16	
	6223h	1	Holiday11 Start	UINT16	
	6224h	1	Holiday11 Stop	UINT16	
	6225h	1	Holiday12 Start	UINT16	
	6226h	1	Holiday12 Stop	UINT16	
	6227h	1	Holiday13 Start	UINT16	
	6228h	1	Holiday13 Stop	UINT16	
	6229h	1	Holiday14 Start	UINT16	
	622Ah	1	Holiday14 Stop	UINT16	
	622Bh	1	Holiday15 Start	UINT16	
	622Ch	1	Holiday15 Stop	UINT16	
	622Dh	1	Holiday16 Start	UINT16	
	622Eh	1	Holiday16 Stop	UINT16	
	622Fh	1	Holiday17 Start	UINT16	
	6230h	1	Holiday17 Stop	UINT16	
	6231h	1	Holiday18 Start	UINT16	
	6232h	1	Holiday18 Stop	UINT16	
	6233h	1	Holiday19 Start	UINT16	
	6234h	1	Holiday19 Stop	UINT16	
	6235h	1	Holiday20 Start	UINT16	
	6236h	1	Holiday20 Stop	UINT16	
	6237h	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive

					enabling

2.8.8.10 Read / write holiday year 8

	6239h	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	623Ah	1	Holiday1 Stop	UINT16	
	623Bh	1	Holiday2 Start	UINT16	
	623Ch	1	Holiday2 Stop	UINT16	
	623Dh	1	Holiday3 Start	UINT16	
	623Eh	1	Holiday3 Stop	UINT16	
	623Fh	1	Holiday4 Start	UINT16	
	6240h	1	Holiday4 Stop	UINT16	
	6241h	1	Holiday5 Start	UINT16	
	6242h	1	Holiday5 Stop	UINT16	
	6243h	1	Holiday6 Start	UINT16	
	6244h	1	Holiday6 Stop	UINT16	
	6245h	1	Holiday7 Start	UINT16	
	6246h	1	Holiday7 Stop	UINT16	
	6247h	1	Holiday8 Start	UINT16	
	6248h	1	Holiday8 Stop	UINT16	
	6249h	1	Holiday9 Start	UINT16	
	624Ah	1	Holiday9 Stop	UINT16	
	624Bh	1	Holiday10 Start	UINT16	
	624Ch	1	Holiday10 Stop	UINT16	

	624Dh	1	Holiday11 Start	UINT16	
	624Eh	1	Holiday11 Stop	UINT16	
	624Fh	1	Holiday12 Start	UINT16	
	6250h	1	Holiday12 Stop	UINT16	
	6251h	1	Holiday13 Start	UINT16	
	6252h	1	Holiday13 Stop	UINT16	
	6253h	1	Holiday14 Start	UINT16	
	6254h	1	Holiday14 Stop	UINT16	
	6255h	1	Holiday15 Start	UINT16	
	6256h	1	Holiday15 Stop	UINT16	
	6257h	1	Holiday16 Start	UINT16	
	6258h	1	Holiday16 Stop	UINT16	
	6259h	1	Holiday17 Start	UINT16	
	625Ah	1	Holiday17 Stop	UINT16	
	625Bh	1	Holiday18 Start	UINT16	
	625Ch	1	Holiday18 Stop	UINT16	
	625Dh	1	Holiday19 Start	UINT16	
	625Eh	1	Holiday19 Stop	UINT16	
	625Fh	1	Holiday20 Start	UINT16	
	6260h	1	Holiday20 Stop	UINT16	
	6261h	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive enabling

2.8.8.11 Read / write holiday year 9

	6263h	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	6264h	1	Holiday1 Stop	UINT16	
	6265h	1	Holiday2 Start	UINT16	
	6266h	1	Holiday2 Stop	UINT16	
	6267h	1	Holiday3 Start	UINT16	
	6268h	1	Holiday3 Stop	UINT16	
	6269h	1	Holiday4 Start	UINT16	
	626Ah	1	Holiday4 Stop	UINT16	
	626Bh	1	Holiday5 Start	UINT16	
	626Ch	1	Holiday5 Stop	UINT16	
	626Dh	1	Holiday6 Start	UINT16	
	626Eh	1	Holiday6 Stop	UINT16	
	626Fh	1	Holiday7 Start	UINT16	
	6270h	1	Holiday7 Stop	UINT16	
	6271h	1	Holiday8 Start	UINT16	
	6272h	1	Holiday8 Stop	UINT16	
	6273h	1	Holiday9 Start	UINT16	
	6274h	1	Holiday9 Stop	UINT16	
	6275h	1	Holiday10 Start	UINT16	
	6276h	1	Holiday10 Stop	UINT16	
	6277h	1	Holiday11 Start	UINT16	
	6278h	1	Holiday11 Stop	UINT16	
	6279h	1	Holiday12 Start	UINT16	
	627Ah	1	Holiday12 Stop	UINT16	
	627Bh	1	Holiday13 Start	UINT16	
	627Ch	1	Holiday13 Stop	UINT16	
	627Dh	1	Holiday14 Start	UINT16	
	627Eh	1	Holiday14 Stop	UINT16	
	627Fh	1	Holiday15 Start	UINT16	
	6280h	1	Holiday15 Stop	UINT16	
	6281h	1	Holiday16 Start	UINT16	
	6282h	1	Holiday16 Stop	UINT16	

	6283h	1	Holiday17 Start	UINT16	
	6284h	1	Holiday17 Stop	UINT16	
	6285h	1	Holiday18 Start	UINT16	
	6286h	1	Holiday18 Stop	UINT16	
	6287h	1	Holiday19 Start	UINT16	
	6288h	1	Holiday19 Stop	UINT16	
	6289h	1	Holiday20 Start	UINT16	
	628Ah	1	Holiday20 Stop	UINT16	
	628Bh	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive enabling

2.8.8.12 ***Read / write holiday year 10***

	628Dh	1	Holiday1 Start	UINT16	Format: mmdd Value < 101: disabled
	628Eh	1	Holiday1 Stop	UINT16	
	628Fh	1	Holiday2 Start	UINT16	
	6290h	1	Holiday2 Stop	UINT16	
	6291h	1	Holiday3 Start	UINT16	
	6292h	1	Holiday3 Stop	UINT16	
	6293h	1	Holiday4 Start	UINT16	
	6294h	1	Holiday4 Stop	UINT16	

	6295h	1	Holiday5 Start	UINT16	
	6296h	1	Holiday5 Stop	UINT16	
	6297h	1	Holiday6 Start	UINT16	
	6298h	1	Holiday6 Stop	UINT16	
	6299h	1	Holiday7 Start	UINT16	
	629Ah	1	Holiday7 Stop	UINT16	
	629Bh	1	Holiday8 Start	UINT16	
	629Ch	1	Holiday8 Stop	UINT16	
	629Dh	1	Holiday9 Start	UINT16	
	629Eh	1	Holiday9 Stop	UINT16	
	629Fh	1	Holiday10 Start	UINT16	
	62A0h	1	Holiday10 Stop	UINT16	
	62A1h	1	Holiday11 Start	UINT16	
	62A2h	1	Holiday11 Stop	UINT16	
	62A3h	1	Holiday12 Start	UINT16	
	62A4h	1	Holiday12 Stop	UINT16	
	62A5h	1	Holiday13 Start	UINT16	
	62A6h	1	Holiday13 Stop	UINT16	
	62A7h	1	Holiday14 Start	UINT16	
	62A8h	1	Holiday14 Stop	UINT16	
	62A9h	1	Holiday15 Start	UINT16	
	62AAh	1	Holiday15 Stop	UINT16	
	62ABh	1	Holiday16 Start	UINT16	
	62ACh	1	Holiday16 Stop	UINT16	
	62ADh	1	Holiday17 Start	UINT16	
	62AEh	1	Holiday17 Stop	UINT16	
	62AFh	1	Holiday18 Start	UINT16	
	62B0h	1	Holiday18 Stop	UINT16	
	62B1h	1	Holiday19 Start	UINT16	
	62B2h	1	Holiday19 Stop	UINT16	
	62B3h	1	Holiday20 Start	UINT16	
	62B4h	1	Holiday20 Stop	UINT16	

	62B5h	2	Pre-festive day before holiday enabling	UINT32	Bit value 1: the day before the holiday is pre-festive Bit value 0: the day before the holiday is not pre-festive Bit position (LSB concept) 0: Holiday 1 pre-festive enabling 1: Holiday 2 pre-festive enabling 2: Holiday 3 pre-festive enabling 3: Holiday 4 pre-festive enabling 4: Holiday 5 pre-festive enabling 5: Holiday 6 pre-festive enabling 6: Holiday 7 pre-festive enabling 7: Holiday 8 pre-festive enabling 8: Holiday 9 pre-festive enabling 9: Holiday 10 pre-festive enabling 10: Holiday 11 pre-festive enabling 11: Holiday 12 pre-festive enabling 12: Holiday 13 pre-festive enabling 13: Holiday 14 pre-festive enabling 14: Holiday 15 pre-festive enabling 15: Holiday 16 pre-festive enabling 16: Holiday 17 pre-festive enabling 17: Holiday 18 pre-festive enabling 18: Holiday 19 pre-festive enabling 19: Holiday 20 pre-festive enabling

2.8.9 Datalogger

2.8.9.1 Datalogger setting

	Physical address	**Length (words)**	**VARIABLE**	**Data Format**	**Notes**
	62B7h	1	Daily Total kWh+ and - OR Daily Tariff kWh	UINT16	Value = 0 : Total Value = 1 : Tariff Any other value = 1 Total

2.8.9.2 Datalogger kWh+ or tariff 1

	62B8h	2	EnergyCurve_01day	UINT32	
	62BAh	2	EnergyCurve_02day	UINT32	
	62BCh	2	EnergyCurve_03day	UINT32	
	62BEh	2	EnergyCurve_04day	UINT32	
	62C0h	2	EnergyCurve_05day	UINT32	
	62C2h	2	EnergyCurve_06day	UINT32	
	62C4h	2	EnergyCurve_07day	UINT32	
	62C6h	2	EnergyCurve_08day	UINT32	
	62C8h	2	EnergyCurve_09day	UINT32	
	62CAh	2	EnergyCurve_10day	UINT32	
	62CCh	2	EnergyCurve_11day	UINT32	
	62CEh	2	EnergyCurve_12day	UINT32	
	62D0h	2	EnergyCurve_13day	UINT32	
	62D2h	2	EnergyCurve_14day	UINT32	
	62D4h	2	EnergyCurve_15day	UINT32	
	62D6h	2	EnergyCurve_16day	UINT32	
	62D8h	2	EnergyCurve_17day	UINT32	
	62DAh	2	EnergyCurve_18day	UINT32	
	62DCh	2	EnergyCurve_19day	UINT32	
	62DEh	2	EnergyCurve_20day	UINT32	
	62E0h	2	EnergyCurve_21day	UINT32	
	62E2h	2	EnergyCurve_22day	UINT32	
	62E4h	2	EnergyCurve_23day	UINT32	
	62E6h	2	EnergyCurve_24day	UINT32	
	62E8h	2	EnergyCurve_25day	UINT32	
	62EAh	2	EnergyCurve_26day	UINT32	
	62ECh	2	EnergyCurve_27day	UINT32	
	62EEh	2	EnergyCurve_28day	UINT32	
	62F0h	2	EnergyCurve_29day	UINT32	
	62F2h	2	EnergyCurve_30day	UINT32	
	62F4h	2	EnergyCurve_31day	UINT32	
	62F6h	2	EnergyCurve_32day	UINT32	
	62F8h	2	EnergyCurve_33day	UINT32	
	62FAh	2	EnergyCurve_34day	UINT32	
	62FCh	2	EnergyCurve_35day	UINT32	

	62FEh	2	EnergyCurve_36day	UINT32	
	6300h	2	EnergyCurve_37day	UINT32	
	6302h	2	EnergyCurve_38day	UINT32	
	6304h	2	EnergyCurve_39day	UINT32	
	6306h	2	EnergyCurve_40day	UINT32	
	6308h	2	EnergyCurve_41day	UINT32	
	630Ah	2	EnergyCurve_42day	UINT32	
	630Ch	2	EnergyCurve_43day	UINT32	
	630Eh	2	EnergyCurve_44day	UINT32	
	6310h	2	EnergyCurve_45day	UINT32	
	6312h	2	EnergyCurve_46day	UINT32	
	6314h	2	EnergyCurve_47day	UINT32	
	6316h	2	EnergyCurve_48day	UINT32	
	6318h	2	EnergyCurve_49day	UINT32	
	631Ah	2	EnergyCurve_50day	UINT32	
	631Ch	2	EnergyCurve_51day	UINT32	
	631Eh	2	EnergyCurve_52day	UINT32	
	6320h	2	EnergyCurve_53day	UINT32	
	6322h	2	EnergyCurve_54day	UINT32	
	6324h	2	EnergyCurve_55day	UINT32	
	6326h	2	EnergyCurve_56day	UINT32	
	6328h	2	EnergyCurve_57day	UINT32	
	632Ah	2	EnergyCurve_58day	UINT32	
	632Ch	2	EnergyCurve_59day	UINT32	
	632Eh	2	EnergyCurve_60day	UINT32	

2.8.9.3 Datalogger kWh- or tariff 2

	6330h	2	EnergyCurve_01day	UINT32	
	6332h	2	EnergyCurve_02day	UINT32	
	6334h	2	EnergyCurve_03day	UINT32	
	6336h	2	EnergyCurve_04day	UINT32	
	6338h	2	EnergyCurve_05day	UINT32	
	633Ah	2	EnergyCurve_06day	UINT32	
	633Ch	2	EnergyCurve_07day	UINT32	

	633Eh	2	EnergyCurve_08day	UINT32	
	6340h	2	EnergyCurve_09day	UINT32	
	6342h	2	EnergyCurve_10day	UINT32	
	6344h	2	EnergyCurve_11day	UINT32	
	6346h	2	EnergyCurve_12day	UINT32	
	6348h	2	EnergyCurve_13day	UINT32	
	634Ah	2	EnergyCurve_14day	UINT32	
	634Ch	2	EnergyCurve_15day	UINT32	
	634Eh	2	EnergyCurve_16day	UINT32	
	6350h	2	EnergyCurve_17day	UINT32	
	6352h	2	EnergyCurve_18day	UINT32	
	6354h	2	EnergyCurve_19day	UINT32	
	6356h	2	EnergyCurve_20day	UINT32	
	6358h	2	EnergyCurve_21day	UINT32	
	635Ah	2	EnergyCurve_22day	UINT32	
	635Ch	2	EnergyCurve_23day	UINT32	
	635Eh	2	EnergyCurve_24day	UINT32	
	6360h	2	EnergyCurve_25day	UINT32	
	6362h	2	EnergyCurve_26day	UINT32	
	6364h	2	EnergyCurve_27day	UINT32	
	6366h	2	EnergyCurve_28day	UINT32	
	6368h	2	EnergyCurve_29day	UINT32	
	636Ah	2	EnergyCurve_30day	UINT32	
	636Ch	2	EnergyCurve_31day	UINT32	
	636Eh	2	EnergyCurve_32day	UINT32	
	6370h	2	EnergyCurve_33day	UINT32	
	6372h	2	EnergyCurve_34day	UINT32	
	6374h	2	EnergyCurve_35day	UINT32	
	6376h	2	EnergyCurve_36day	UINT32	
	6378h	2	EnergyCurve_37day	UINT32	
	637Ah	2	EnergyCurve_38day	UINT32	
	637Ch	2	EnergyCurve_39day	UINT32	
	637Eh	2	EnergyCurve_40day	UINT32	
	6380h	2	EnergyCurve_41day	UINT32	
	6382h	2	EnergyCurve_42day	UINT32	
	6384h	2	EnergyCurve_43day	UINT32	

	6386h	2	EnergyCurve_44day	UINT32	
	6388h	2	EnergyCurve_45day	UINT32	
	638Ah	2	EnergyCurve_46day	UINT32	
	638Ch	2	EnergyCurve_47day	UINT32	
	638Eh	2	EnergyCurve_48day	UINT32	
	6390h	2	EnergyCurve_49day	UINT32	
	6392h	2	EnergyCurve_50day	UINT32	
	6394h	2	EnergyCurve_51day	UINT32	
	6396h	2	EnergyCurve_52day	UINT32	
	6398h	2	EnergyCurve_53day	UINT32	
	639Ah	2	EnergyCurve_54day	UINT32	
	639Ch	2	EnergyCurve_55day	UINT32	
	639Eh	2	EnergyCurve_56day	UINT32	
	63A0h	2	EnergyCurve_57day	UINT32	
	63A2h	2	EnergyCurve_58day	UINT32	
	63A4h	2	EnergyCurve_59day	UINT32	
	63A6h	2	EnergyCurve_60day	UINT32	

2.8.9.4 Datalogger tariff 3

	63A8h	2	EnergyCurve_01day	UINT32	
	63AAh	2	EnergyCurve_02day	UINT32	
	63ACh	2	EnergyCurve_03day	UINT32	
	63AEh	2	EnergyCurve_04day	UINT32	
	63B0h	2	EnergyCurve_05day	UINT32	
	63B2h	2	EnergyCurve_06day	UINT32	
	63B4h	2	EnergyCurve_07day	UINT32	
	63B6h	2	EnergyCurve_08day	UINT32	
	63B8h	2	EnergyCurve_09day	UINT32	
	63BAh	2	EnergyCurve_10day	UINT32	
	63BCh	2	EnergyCurve_11day	UINT32	
	63BEh	2	EnergyCurve_12day	UINT32	
	63C0h	2	EnergyCurve_13day	UINT32	
	63C2h	2	EnergyCurve_14day	UINT32	
	63C4h	2	EnergyCurve_15day	UINT32	

	63C6h	2	EnergyCurve_16day	UINT32	
	63C8h	2	EnergyCurve_17day	UINT32	
	63CAh	2	EnergyCurve_18day	UINT32	
	63CCh	2	EnergyCurve_19day	UINT32	
	63CEh	2	EnergyCurve_20day	UINT32	
	63D0h	2	EnergyCurve_21day	UINT32	
	63D2h	2	EnergyCurve_22day	UINT32	
	63D4h	2	EnergyCurve_23day	UINT32	
	63D6h	2	EnergyCurve_24day	UINT32	
	63D8h	2	EnergyCurve_25day	UINT32	
	63DAh	2	EnergyCurve_26day	UINT32	
	63DCh	2	EnergyCurve_27day	UINT32	
	63DEh	2	EnergyCurve_28day	UINT32	
	63E0h	2	EnergyCurve_29day	UINT32	
	63E2h	2	EnergyCurve_30day	UINT32	
	63E4h	2	EnergyCurve_31day	UINT32	
	63E6h	2	EnergyCurve_32day	UINT32	
	63E8h	2	EnergyCurve_33day	UINT32	
	63EAh	2	EnergyCurve_34day	UINT32	
	63ECh	2	EnergyCurve_35day	UINT32	
	63EEh	2	EnergyCurve_36day	UINT32	
	63F0h	2	EnergyCurve_37day	UINT32	
	63F2h	2	EnergyCurve_38day	UINT32	
	63F4h	2	EnergyCurve_39day	UINT32	
	63F6h	2	EnergyCurve_40day	UINT32	
	63F8h	2	EnergyCurve_41day	UINT32	
	63FAh	2	EnergyCurve_42day	UINT32	
	63FCh	2	EnergyCurve_43day	UINT32	
	63FEh	2	EnergyCurve_44day	UINT32	
	6400h	2	EnergyCurve_45day	UINT32	
	6402h	2	EnergyCurve_46day	UINT32	
	6404h	2	EnergyCurve_47day	UINT32	
	6406h	2	EnergyCurve_48day	UINT32	
	6408h	2	EnergyCurve_49day	UINT32	
	640Ah	2	EnergyCurve_50day	UINT32	
	640Ch	2	EnergyCurve_51day	UINT32	

	640Eh	2	EnergyCurve_52day	UINT32	
	6410h	2	EnergyCurve_53day	UINT32	
	6412h	2	EnergyCurve_54day	UINT32	
	6414h	2	EnergyCurve_55day	UINT32	
	6416h	2	EnergyCurve_56day	UINT32	
	6418h	2	EnergyCurve_57day	UINT32	
	641Ah	2	EnergyCurve_58day	UINT32	
	641Ch	2	EnergyCurve_59day	UINT32	
	641Eh	2	EnergyCurve_60day	UINT32	

2.8.9.5 Datalogger tariff 4

	6420h	2	EnergyCurve_01day	UINT32	
	6422h	2	EnergyCurve_02day	UINT32	
	6424h	2	EnergyCurve_03day	UINT32	
	6426h	2	EnergyCurve_04day	UINT32	
	6428h	2	EnergyCurve_05day	UINT32	
	642Ah	2	EnergyCurve_06day	UINT32	
	642Ch	2	EnergyCurve_07day	UINT32	
	642Eh	2	EnergyCurve_08day	UINT32	
	6430h	2	EnergyCurve_09day	UINT32	
	6432h	2	EnergyCurve_10day	UINT32	
	6434h	2	EnergyCurve_11day	UINT32	
	6436h	2	EnergyCurve_12day	UINT32	
	6438h	2	EnergyCurve_13day	UINT32	
	643Ah	2	EnergyCurve_14day	UINT32	
	643Ch	2	EnergyCurve_15day	UINT32	
	643Eh	2	EnergyCurve_16day	UINT32	
	6440h	2	EnergyCurve_17day	UINT32	
	6442h	2	EnergyCurve_18day	UINT32	
	6444h	2	EnergyCurve_19day	UINT32	
	6446h	2	EnergyCurve_20day	UINT32	
	6448h	2	EnergyCurve_21day	UINT32	
	644Ah	2	EnergyCurve_22day	UINT32	
	644Ch	2	EnergyCurve_23day	UINT32	

	644Eh	2	EnergyCurve_24day	UINT32	
	6450h	2	EnergyCurve_25day	UINT32	
	6452h	2	EnergyCurve_26day	UINT32	
	6454h	2	EnergyCurve_27day	UINT32	
	6456h	2	EnergyCurve_28day	UINT32	
	6458h	2	EnergyCurve_29day	UINT32	
	645Ah	2	EnergyCurve_30day	UINT32	
	645Ch	2	EnergyCurve_31day	UINT32	
	645Eh	2	EnergyCurve_32day	UINT32	
	6460h	2	EnergyCurve_33day	UINT32	
	6462h	2	EnergyCurve_34day	UINT32	
	6464h	2	EnergyCurve_35day	UINT32	
	6466h	2	EnergyCurve_36day	UINT32	
	6468h	2	EnergyCurve_37day	UINT32	
	646Ah	2	EnergyCurve_38day	UINT32	
	646Ch	2	EnergyCurve_39day	UINT32	
	646Eh	2	EnergyCurve_40day	UINT32	
	6470h	2	EnergyCurve_41day	UINT32	
	6472h	2	EnergyCurve_42day	UINT32	
	6474h	2	EnergyCurve_43day	UINT32	
	6476h	2	EnergyCurve_44day	UINT32	
	6478h	2	EnergyCurve_45day	UINT32	
	647Ah	2	EnergyCurve_46day	UINT32	
	647Ch	2	EnergyCurve_47day	UINT32	
	647Eh	2	EnergyCurve_48day	UINT32	
	6480h	2	EnergyCurve_49day	UINT32	
	6482h	2	EnergyCurve_50day	UINT32	
	6484h	2	EnergyCurve_51day	UINT32	
	6486h	2	EnergyCurve_52day	UINT32	
	6488h	2	EnergyCurve_53day	UINT32	
	648Ah	2	EnergyCurve_54day	UINT32	
	648Ch	2	EnergyCurve_55day	UINT32	
	648Eh	2	EnergyCurve_56day	UINT32	
	6490h	2	EnergyCurve_57day	UINT32	
	6492h	2	EnergyCurve_58day	UINT32	
	6494h	2	EnergyCurve_59day	UINT32	

	6496h	2	EnergyCurve_60day	UINT32	

2.8.9.6 Datalogger days

	6498h	2	EnergyCurve_01day	UINT32	
	649Ah	2	EnergyCurve_02day	UINT32	
	649Ch	2	EnergyCurve_03day	UINT32	
	649Eh	2	EnergyCurve_04day	UINT32	
	64A0h	2	EnergyCurve_05day	UINT32	
	64A2h	2	EnergyCurve_06day	UINT32	
	64A4h	2	EnergyCurve_07day	UINT32	
	64A6h	2	EnergyCurve_08day	UINT32	
	64A8h	2	EnergyCurve_09day	UINT32	
	64AAh	2	EnergyCurve_10day	UINT32	
	64ACh	2	EnergyCurve_11day	UINT32	
	64AEh	2	EnergyCurve_12day	UINT32	
	64B0h	2	EnergyCurve_13day	UINT32	
	64B2h	2	EnergyCurve_14day	UINT32	
	64B4h	2	EnergyCurve_15day	UINT32	
	64B6h	2	EnergyCurve_16day	UINT32	
	64B8h	2	EnergyCurve_17day	UINT32	
	64BAh	2	EnergyCurve_18day	UINT32	
	64BCh	2	EnergyCurve_19day	UINT32	
	64BEh	2	EnergyCurve_20day	UINT32	
	64C0h	2	EnergyCurve_21day	UINT32	
	64C2h	2	EnergyCurve_22day	UINT32	
	64C4h	2	EnergyCurve_23day	UINT32	
	64C6h	2	EnergyCurve_24day	UINT32	
	64C8h	2	EnergyCurve_25day	UINT32	
	64CAh	2	EnergyCurve_26day	UINT32	
	64CCh	2	EnergyCurve_27day	UINT32	
	64CEh	2	EnergyCurve_28day	UINT32	
	64D0h	2	EnergyCurve_29day	UINT32	
	64D2h	2	EnergyCurve_30day	UINT32	
	64D4h	2	EnergyCurve_31day	UINT32	

	64D6h	2	EnergyCurve_32day	UINT32	
	64D8h	2	EnergyCurve_33day	UINT32	
	64DAh	2	EnergyCurve_34day	UINT32	
	64DCh	2	EnergyCurve_35day	UINT32	
	64DEh	2	EnergyCurve_36day	UINT32	
	64E0h	2	EnergyCurve_37day	UINT32	
	64E2h	2	EnergyCurve_38day	UINT32	
	64E4h	2	EnergyCurve_39day	UINT32	
	64E6h	2	EnergyCurve_40day	UINT32	
	64E8h	2	EnergyCurve_41day	UINT32	
	64EAh	2	EnergyCurve_42day	UINT32	
	64ECh	2	EnergyCurve_43day	UINT32	
	64EEh	2	EnergyCurve_44day	UINT32	
	64F0h	2	EnergyCurve_45day	UINT32	
	64F2h	2	EnergyCurve_46day	UINT32	
	64F4h	2	EnergyCurve_47day	UINT32	
	64F6h	2	EnergyCurve_48day	UINT32	
	64F8h	2	EnergyCurve_49day	UINT32	
	64FAh	2	EnergyCurve_50day	UINT32	
	64FCh	2	EnergyCurve_51day	UINT32	
	64FEh	2	EnergyCurve_52day	UINT32	
	6500h	2	EnergyCurve_53day	UINT32	
	6502h	2	EnergyCurve_54day	UINT32	
	6504h	2	EnergyCurve_55day	UINT32	
	6506h	2	EnergyCurve_56day	UINT32	
	6508h	2	EnergyCurve_57day	UINT32	
	650Ah	2	EnergyCurve_58day	UINT32	
	650Ch	2	EnergyCurve_59day	UINT32	
	650Eh	2	EnergyCurve_60day	UINT32	

Note

The default value shall be automatically assigned to the parameters when an out-of-range or invalid value is written.

The default value shall be automatically assigned to the parameters when an out-of-range or invalid value is written.