

M-Bus / MiniBus / optical Interface firmware 2 for the heat meters PolluCom E, PolluTherm, PolluStat E

Nineteen different RSP_UD - telegrams

With the frame RSP_UD, after the start character 68h, the length field (L field) is first transmitted twice, followed by the start character once again. After this, there follow the function field (C field), the address field (A field) and the control information field (CI field). The L field gives the quantity of the user data inputs plus 3 (for C,A,CI). After the user data inputs, the check sum is transmitted, which is built up over the same area as the length field, and in conclusion the stop character 16h is transmitted.

The structure of the user data is:

Fixed Data Header	Variable Data Blocks (Records)	MDH	Mfg.specific data
12 Byte	variable number	1 Byte	variable number

The structure of the fixed data header is:

Ident. Nr.	Manufr.	Version	Medium	Access No.	Status	Signature
4 Byte	2 Byte	1 Byte	1 Byte	1 Byte	1 Byte	2 Byte

The structure of the variable data blocks is:

DIF	DIFE	VIF	VIFE	Data
1 Byte	0-10 (1 Byte each)	1 Byte	0-10 (1 Byte each)	N Bytes
Data Information Block DIB		Value Information Block VIB		
Data Record Header DRH				

Storage map:

storage		DIF	DIFE
34-81d	monthly max. power and flow		2 DIFE !
31	not used		
30	max. power	not 40h	0F
29	max. flow	or 40h	0E
28	max. inlet temperature	not 40h	0E
27	max. outlet temperature	or 40h	0D
-	not used		
17	oldest storage	or 40h	
-	storage		
2	last storage	not 40h	
1	value at fixed date	or 40h	
0	instantaneous value		

subunit: pulsecounter 1 and 2 : DIFE or 40h
counter 1: tariff 1; counter2: tariff 2

First user data:

integral values and instantaneous values

length: 42h or 43h

(example in MWh and GJ), *different DIF/DIFE/VIF/VIFE are possible !*

DIF	DIFE	VIF	VIFE		
0C		06		00000662	<i>Energy in MWh</i>
<i>or 0C</i>		<i>07</i>			
<i>or 0C</i>		<i>85</i>	<i>7D</i>		
<i>or 0C</i>		<i>86</i>	<i>7D</i>		
<i>or 0C</i>		<i>0E</i>			<i>Energy in GJ</i>
<i>or 0C</i>		<i>0F</i>			
<i>or 0C</i>		<i>8D</i>	<i>7D</i>		
<i>or 0C</i>		<i>8E</i>	<i>7D</i>		
0C		13		00011852	Volume
		<i>or 14 or 15 or 16</i>			
0C		3B		00000401	Flow
		<i>or 3C or 3D or 3E</i>			
0C		2B		00016572	Power
		<i>or 2C or 2D or 2E</i>			
02		5A		024F	Inlet temperature 59,1 °C
02		5E		018A	Outlet temperature 39,4°C
03		60		004CF4	Temperature difference 19,700 mK
0C		78		18534492	Fabrication number
0C		FD	10	48056318	Customer Location
1F					more records follow in next telegram

Second user data:

tariff values and integral values

length: between 60h and 69h

DIF	DIFE	VIF	VIFE		
02		71		3C00	Averaging duration
04		6D		E4010A00	TimeDate Typ F
8C or 8C or 82 or 82 or 83 or 83 AND 82	10 10 10 10 10 10 10	AB BB DA DE E0 FD FD	40 or 48 30 31	BCD 4 byte BCD 4 byte binary 2 byte binary 2 byte binary 3 byte type J (time) 3 byte binary 2 byte	Tariff: VIFE: if greater 40h ; if lower 48h; compare with average power compare with flow compare with inlet temperature compare with outlet temperature compare with temperature difference Start of tariff AND duration of tariff (minutes)
8C	10	06		00000000	Tariff energy
		<i>or 07</i>			
		<i>or 85</i>	7D		
		<i>or 86</i>	7D		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	7D		
		<i>or 8E</i>	7D		
82	20	FB	76	0000	cooling temp. limit (0,1°C)
83	20	E0	48	000000	cooling start temperaturdifference
8C	20	06		00000000	cooling energy
		<i>or 07</i>			
		<i>or 85</i>	7D		
		<i>or 86</i>	7D		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	7D		
		<i>or 8E</i>	7D		
8C	50	78		12345678	ID device 1
8C	50	VIF11		00000000	value device 1 (from set_counter_1_2)
8C	60	78		87654321	ID device 2
8C	60	VIF21		00000000	value device 2 (from set_counter_1_2)
32		22		0000	error hours
32		FD	75	0000	main supply error hours
1F					more records follow in next telegram

Third user data:

values at fixed date and maxima values

length: 6Dh or 70h

DIF	DIFE	VIF	VIFE		
44		6D		E4 0A 1F 00	fixed date: CP32
4C		06		00 00 00 00	energy at fixed date
		<i>or 07</i>		00 00 00 00	
		85	7D	00 00 00 00	
		86	7D	00 00 00 00	
		0E		00 00 00 00	
		0F		00 00 00 00	
		8D	7D	00 00 00 00	
		8E	7D	00 00 00 00	
4C		13		00 00 00 00	volume at fixed date
		<i>or 14 or 15 or 16</i>			
CC	10	06		00000000	Tariff energy at fixed date
		<i>or 07</i>			
		<i>or 85</i>	7D		
		<i>or 86</i>	7D		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	7D		
		<i>or 8E</i>	7D		
CC	20	06		00000000	cooling energy at fixed date
		<i>or 07</i>			
		<i>or 85</i>	7D		
		<i>or 86</i>	7D		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	7D		
		<i>or 8E</i>	7D		
CC	50	VIF11		00000000	value device 1 at fixed date
CC	60	VIF21		00000000	value device 2 at fixed date
9C	0F	2B		00000000	Max Val. Power
		<i>or 2C or 2D or 2E</i>			
84	0F	6D		1F010A00	TimeDate point
DC	0E	3B		00000000	Max. Val flow
		<i>or 3C or 3D or 3E</i>			
C4	0E	6D		00000000	TimeDate point
92	0E	5A		2801	Max. Val. Inlet temperature
82	0E	6C		1F01	Time point
D2	0D	5E		2701	Max. Val. Outlet temperature
C2	0D	6C		1F01	Time point
1F					more records follow in next telegram

Fourth user data:

historic data

length: 6Ch or 6F

DIF	DIFE	VIF	VIFE		
84	01	6D		00000000	storage date/time
8C	01	06		00000662	energy at storage point
		<i>or 07</i>			
		<i>or 85</i>	<i>7D</i>		
		<i>or 86</i>	<i>7D</i>		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	<i>7D</i>		
		<i>or 8E</i>	<i>7D</i>		
8C	01	13		00011852	volume at storage point
		<i>or 14 or 15 or 16</i>			
8C	11	06		00000662	tarif energy at storage point
		<i>or 07</i>			
		<i>or 85</i>	<i>7D</i>		
		<i>or 86</i>	<i>7D</i>		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	<i>7D</i>		
		<i>or 8E</i>	<i>7D</i>		
8C	21	06		00000662	cooling energy at storage point
		<i>or 07</i>			
		<i>or 85</i>	<i>7D</i>		
		<i>or 86</i>	<i>7D</i>		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	<i>7D</i>		
		<i>or 8E</i>	<i>7D</i>		
8C	51	VIF11		00000000	value device 1 at storage point
8C	61	VIF21		00000000	value device 2 at storage point
B2	01	22		0000	error hours during the month
B2	01	FD	75	0000	AC error hours during the month
9C	81 01	2B		00000000	monthly max Val. Power
		<i>or 2C or 2D or 2E</i>			
84	81 01	6D		1F010A00	TimeDate point
9C	81 02	3B		00000000	monthly max. Val flow
		<i>or 3C or 3D or 3E</i>			
84	81 02	6D		00000000	TimeDate point
1F					more records follow in next telegram

Fifth user data:

length: 6Ch or 6F

DIF	DIFE	VIF	VIFE		
C4	01	6D		00000000	storage date/time
CC	01	06		00000662	energy at storage point
		<i>or 07</i>			
		<i>or 85</i>	<i>7D</i>		
		<i>or 86</i>	<i>7D</i>		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	<i>7D</i>		
		<i>or 8E</i>	<i>7D</i>		
CC	01	13		00011852	volume at storage point
		<i>or 14 or 15 or 16</i>			
CC	11	06		00000662	tarif energy at storage point
		<i>or 07</i>			
		<i>or 85</i>	<i>7D</i>		
		<i>or 86</i>	<i>7D</i>		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	<i>7D</i>		
		<i>or 8E</i>	<i>7D</i>		
CC	21	06		00000662	cooling energy at storage point
		<i>or 07</i>			
		<i>or 85</i>	<i>7D</i>		
		<i>or 86</i>	<i>7D</i>		
		<i>or 0E</i>			
		<i>or 0F</i>			
		<i>or 8D</i>	<i>7D</i>		
		<i>or 8E</i>	<i>7D</i>		
CC	51	VIF11			value device 1 at storage point
CC	61	VIF21			value device 2 at storage point
F2	01	22		0000	error hours during the month
F2	01	FD	75	0000	AC error hours during the month
DC	81 01	2B		00000000	monthly max Val. Power
		<i>or 2C or 2D or 2E</i>			
C4	81 01	6D		1F010A00	TimeDate point
DC	81 02	3B		00000000	monthly max. Val flow
		<i>or 3C or 3D or 3E</i>			
C4	81 02	6D		00000000	TimeDate point
1F					more records follow in next telegram

Next user data:

use storage 4 to 17

Einstellung Kanal COM1:2400, Zählersuche nach Primäradresse
 Einstellung Zähler 254 (FEH), PolluCom E (New version)

```

<<<
FF|FF|F0|FE|FF|FF|FF|FF
FF|FF|F0|FE|FF|FF|FF|FF|FF|FF|DB|DB|DF|EF|FF|FF
FF
Setzen von DTR
>>> SND_NKE
10|40|FE|3E|16
<<<
10|40|FE|3E|16|E5
E5
>>> REQ_UD2
10|5B|FE|59|16
<<<
10|5B|FE|59|16|68|42|42
68|42|42|68|08|00|72|45|00|94|63|AE|4C|08|04|F9
00|00|00|0C|06|19|90|01|00|0C|13|19|11|62|01|0C
3B|00|00|00|00|0C|2B|00|00|00|00|02|5A|67|01|02
5E|E9|00|03|60|46|31|00|0C|78|45|00|94|63|0C|FD
10|45|00|94|63|1F|B6|16
Primäre M-Bus-Adresse   : 0 (0 Hex)
Zähler-ID               : 63940045
Hersteller              : 4CAE Hex, SEN
Zählerversion           : 8 Hex
Gemessenes Medium      : 4 Hex, Rücklauftemperatur
Zugriffsnummer         : F9 Hex
Zähler Status           : 0 Hex
Signatur                 : 0 Hex
Zählwerk:
000: Aktueller Wert BCD-8   Unit:0   Tariff:0   Storage No:0
    Energie = 19019 [kWh]
001: Aktueller Wert BCD-8   Unit:0   Tariff:0   Storage No:0
    Volumen = 1621119 [l]
002: Aktueller Wert BCD-8   Unit:0   Tariff:0   Storage No:0
    Durchfluss = 0 [l/h]
003: Aktueller Wert BCD-8   Unit:0   Tariff:0   Storage No:0
    Leistung = 0 [W]
004: Aktueller Wert Int-16  Unit:0   Tariff:0   Storage No:0
    Vorlauftemperatur = 35,9 [°C]
005: Aktueller Wert Int-16  Unit:0   Tariff:0   Storage No:0
    Rücklauftemperatur = 23,3 [°C]
006: Aktueller Wert Int-24  Unit:0   Tariff:0   Storage No:0
    Temperaturdifferenz = 12,614 [K]
007: Aktueller Wert BCD-8   Unit:0   Tariff:0   Storage No:0
    Fabrikations-Nummer = 63940045 [-]
008: Aktueller Wert BCD-8   Unit:0   Tariff:0   Storage No:0
    Liegenschaftsnummer = 63940045 [-]
DIB = 1F Manufacturer specific data, more records in next telegram
  
```

2. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16|68|62|62

68|62|62|68|08|00|72|45|00|94|63|AE|4C|08|04|FA

00|00|00|02|71|0F|00|04|6D|12|0B|FB|08|8C|10|AB

40|05|00|00|00|8C|10|06|23|89|01|00|82|20|FB|76

FF|FF|83|20|E0|48|19|00|00|8C|20|06|00|00|00|00

8C|50|78|00|00|00|00|8C|50|14|00|00|00|00|8C|60

78|00|00|00|00|8C|60|14|00|00|00|00|32|22|00|00

32|FD|75|00|00|1F|0A|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : FA Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

009: Aktueller Wert Int-16 Unit:0 Tariff:0 Storage No:0

Mittlere Dauer = 15 [min.]

010: Aktueller Wert Int-32 Unit:0 Tariff:0 Storage No:0

Stichtag (Tag-Zeit) = 27-08-2007 11:18:00 []

011: Aktueller Wert BCD-8 Unit:0 Tariff:1 Storage No:0

lower limit value

Leistung = 5 [W]

011: Aktueller Wert Int-16 Unit:0 Tariff:2 Storage No:0

Cold/Warm temperature limit (C) = -0,1 [°C]

012: Aktueller Wert Int-24 Unit:0 Tariff:2 Storage No:0 upper

limit value

Temperaturdifferenz = 0,025 [K]

013: Aktueller Wert BCD-8 Unit:0 Tariff:2 Storage No:0

Energie = 0 [kWh]

014: Fehlerwert Int-16 Unit:0 Tariff:0 Storage No:0

Rechtzeitig = 0 [hour]

015: Fehlerwert Int-16 Unit:0 Tariff:0 Storage No:0

#times the meter was stopped = 0 [-]

DIB = 1F Manufacturer specific data, more records in next telegram

3. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<

10|5B|FE|59|16

68|72|72|68|08|00|72|45|00|94|63|AE|4C|08|04|FB
 00|00|00|44|6D|3B|17|DF|0C|4C|06|25|30|00|00|4C
 13|91|80|23|00|CC|10|06|09|30|00|00|CC|20|06|00
 00|00|00|CC|50|14|00|00|00|00|CC|60|14|00|00|00
 00|9C|0F|2B|35|11|07|00|84|0F|6D|14|06|FB|01|DC
 0E|3B|24|10|00|00|C4|0E|6D|07|06|EC|05|92|0E|5A
 FD|03|84|0E|6D|10|12|FC|02|D2|0D|5E|53|03|C4|0D
 6D|29|0C|E4|06|1F|53|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : FB Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

016: Aktueller Wert Int-32 Unit:0 Tariff:0 Storage No:1
 Stichtag (Tag-Zeit) = 31-12-2006 23:59:00 []

017: Aktueller Wert BCD-8 Unit:0 Tariff:0 Storage No:1
 Energie = 3025 [kWh]

018: Aktueller Wert BCD-8 Unit:0 Tariff:0 Storage No:1
 Volumen = 238091 [l]

019: Aktueller Wert BCD-8 Unit:0 Tariff:1 Storage No:1
 Energie = 3009 [kWh]

020: Aktueller Wert BCD-8 Unit:0 Tariff:2 Storage No:1
 Energie = 0 [kWh]

021: Maximaler Wert BCD-8 Unit:0 Tariff:0 Storage No:30
 Leistung = 71135 [W]

022: Aktueller Wert Int-32 Unit:0 Tariff:0 Storage No:30
 Stichtag (Tag-Zeit) = 27-01-2007 06:20:00 []

023: Maximaler Wert BCD-8 Unit:0 Tariff:0 Storage No:29
 Durchfluss = 1024 [l/h]

024: Aktueller Wert Int-32 Unit:0 Tariff:0 Storage No:29
 Stichtag (Tag-Zeit) = 12-05-2007 06:07:00 []

025: Maximaler Wert Int-16 Unit:0 Tariff:0 Storage No:28
 Vorlauftemperatur = 102,1 [°C]

026: Aktueller Wert Int-32 Unit:0 Tariff:0 Storage No:28
 Stichtag (Tag-Zeit) = 28-02-2007 18:16:00 []

027: Maximaler Wert Int-16 Unit:0 Tariff:0 Storage No:27
 Rücklauftemperatur = 85,1 [°C]

028: Aktueller Wert Int-32 Unit:0 Tariff:0 Storage No:27
 Stichtag (Tag-Zeit) = 04-06-2007 12:41:00 []

DIB = 1F Manufacturer specific data, more records in next telegram

4. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|FC
 00|00|00|84|01|6D|3B|17|FF|07|8C|01|06|88|89|01
 00|8C|01|13|08|97|61|01|8C|11|06|94|88|01|00|8C
 21|06|00|00|00|00|8C|51|14|00|00|00|00|8C|61|14
 00|00|00|00|B2|01|22|00|00|B2|01|FD|75|00|00|9C
 81|01|2B|27|13|03|00|84|81|01|6D|0E|05|E9|07|9C
 81|02|3B|94|06|00|00|84|81|02|6D|2E|06|E9|07|1F
 4E|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : FC Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

029: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:2
Stichtag (Tag-Zeit) = 31-07-2007 23:59:00 []			
030: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:2
Energie = 18988 [kWh]			
031: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:2
Volumen = 1619708 []			
032: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:2
Energie = 18894 [kWh]			
033: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:2
Energie = 0 [kWh]			
034: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:2
Rechtzeitig = 0 [hour]			
035: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:2
#times the meter was stopped = 0 [-]			
036: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:34
Leistung = 31327 [W]			
037: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:34
Stichtag (Tag-Zeit) = 09-07-2007 05:14:00 []			
038: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:66
Durchfluss = 694 [l/h]			
039: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:66
Stichtag (Tag-Zeit) = 09-07-2007 06:46:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

5. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<<

10|5B|FE|59|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|FD
 00|00|00|C4|01|6D|3B|17|FE|06|CC|01|06|74|87|01
 00|CC|01|13|87|40|60|01|CC|11|06|85|86|01|00|CC
 21|06|00|00|00|00|CC|51|14|00|00|00|00|CC|61|14
 00|00|00|00|F2|01|22|00|00|F2|01|FD|75|00|00|DC
 81|01|2B|10|70|02|00|C4|81|01|6D|37|04|FD|06|DC
 81|02|3B|06|04|00|00|C4|81|02|6D|36|04|FD|06|1F
 96|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : FD Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

040: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:3
Stichtag (Tag-Zeit) = 30-06-2007 23:59:00 []			
041: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:3
Energie = 18774 [kWh]			
042: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:3
Volumen = 1604087 [l]			
043: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:3
Energie = 18685 [kWh]			
044: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:3
Energie = 0 [kWh]			
045: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:3
Rechtzeitig = 0 [hour]			
046: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:3
#times the meter was stopped = 0 [-]			
047: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:35
Leistung = 27010 [W]			
048: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:35
Stichtag (Tag-Zeit) = 29-06-2007 04:55:00 []			
049: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:67
Durchfluss = 406 [l/h]			
050: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:67
Stichtag (Tag-Zeit) = 29-06-2007 04:54:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

6. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|FE
 00|00|00|84|02|6D|3B|17|FF|05|8C|02|06|39|87|01
 00|8C|02|13|25|92|59|01|8C|12|06|53|86|01|00|8C
 22|06|00|00|00|00|8C|52|14|00|00|00|00|8C|62|14
 00|00|00|00|B2|02|22|00|00|B2|02|FD|75|00|00|9C
 82|01|2B|14|75|04|00|84|82|01|6D|38|04|F0|05|9C
 82|02|3B|24|10|00|00|84|82|02|6D|07|06|EC|05|1F
 C9|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : FE Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

051: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:4
Stichtag (Tag-Zeit) = 31-05-2007 23:59:00 []			
052: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:4
Energie = 18739 [kWh]			
053: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:4
Volumen = 1599225 [l]			
054: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:4
Energie = 18653 [kWh]			
055: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:4
Energie = 0 [kWh]			
056: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:4
Rechtzeitig = 0 [hour]			
057: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:4
#times the meter was stopped = 0 [-]			
058: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:36
Leistung = 47514 [W]			
059: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:36
Stichtag (Tag-Zeit) = 16-05-2007 04:56:00 []			
060: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:68
Durchfluss = 1024 [l/h]			
061: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:68
Stichtag (Tag-Zeit) = 12-05-2007 06:07:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

7. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<

10|5B|FE|59|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|FF
 00|00|00|C4|02|6D|3B|17|FE|04|CC|02|06|26|79|01
 00|CC|02|13|75|18|52|01|CC|12|06|47|78|01|00|CC
 22|06|00|00|00|00|CC|52|14|00|00|00|00|CC|62|14
 00|00|00|00|F2|02|22|00|00|F2|02|FD|75|00|00|DC
 82|01|2B|69|91|06|00|C4|82|01|6D|14|05|EE|04|DC
 82|02|3B|96|08|00|00|C4|82|02|6D|2B|03|E1|04|1F
 68|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : FF Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

062: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:5
Stichtag (Tag-Zeit) = 30-04-2007 23:59:00 []			
063: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:5
Energie = 17926 [kWh]			
064: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:5
Volumen = 1521875 [l]			
065: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:5
Energie = 17847 [kWh]			
066: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:5
Energie = 0 [kWh]			
067: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:5
Rechtzeitig = 0 [hour]			
068: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:5
#times the meter was stopped = 0 [-]			
069: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:37
Leistung = 69169 [W]			
070: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:37
Stichtag (Tag-Zeit) = 14-04-2007 05:20:00 []			
071: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:69
Durchfluss = 896 [l/h]			
072: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:69
Stichtag (Tag-Zeit) = 01-04-2007 03:43:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

8. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|00
 00|00|00|84|03|6D|3B|17|FF|03|8C|03|06|37|55|01
 00|8C|03|13|84|03|27|01|8C|13|06|69|54|01|00|8C
 23|06|00|00|00|00|8C|53|14|00|00|00|00|8C|63|14
 00|00|00|00|B2|03|22|00|00|B2|03|FD|75|00|00|9C
 83|01|2B|96|99|06|00|84|83|01|6D|0F|06|E4|03|9C
 83|02|3B|35|09|00|00|84|83|02|6D|25|03|F7|03|1F
 C5|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 0 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

073: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:6
Stichtag (Tag-Zeit) = 31-03-2007 23:59:00 []			
074: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:6
Energie = 15537 [kWh]			
075: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:6
Volumen = 1270384 []			
076: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:6
Energie = 15469 [kWh]			
077: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:6
Energie = 0 [kWh]			
078: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:6
Rechtzeitig = 0 [hour]			
079: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:6
#times the meter was stopped = 0 [-]			
080: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:38
Leistung = 69996 [W]			
081: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:38
Stichtag (Tag-Zeit) = 04-03-2007 06:15:00 []			
082: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:70
Durchfluss = 935 [l/h]			
083: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:70
Stichtag (Tag-Zeit) = 23-03-2007 03:37:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

9. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<

10|5B|FE|59|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|01
 00|00|00|C4|03|6D|3B|17|FC|02|CC|03|06|84|20|01
 00|CC|03|13|22|53|93|00|CC|13|06|37|20|01|00|CC
 23|06|00|00|00|00|CC|53|14|00|00|00|00|CC|63|14
 00|00|00|00|F2|03|22|00|00|F2|03|FD|75|00|00|DC
 83|01|2B|14|82|06|00|C4|83|01|6D|0E|06|F9|02|DC
 83|02|3B|96|08|00|00|C4|83|02|6D|2D|05|E3|02|1F
 DC|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 1 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

084: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:7
Stichtag (Tag-Zeit) = 28-02-2007 23:59:00 []			
085: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:7
Energie = 12084 [kWh]			
086: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:7
Volumen = 935322 [l]			
087: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:7
Energie = 12037 [kWh]			
088: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:7
Energie = 0 [kWh]			
089: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:7
Rechtzeitig = 0 [hour]			
090: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:7
#times the meter was stopped = 0 [-]			
091: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:39
Leistung = 68214 [W]			
092: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:39
Stichtag (Tag-Zeit) = 25-02-2007 06:14:00 []			
093: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:71
Durchfluss = 896 [l/h]			
094: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:71
Stichtag (Tag-Zeit) = 03-02-2007 05:45:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

10. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|02
 00|00|00|84|04|6D|3B|17|FF|01|8C|04|06|86|76|00
 00|8C|04|13|36|86|58|00|8C|14|06|64|76|00|00|8C
 24|06|00|00|00|00|8C|54|14|00|00|00|00|8C|64|14
 00|00|00|00|B2|04|22|00|00|B2|04|FD|75|00|00|9C
 84|01|2B|35|11|07|00|84|84|01|6D|14|06|FB|01|9C
 84|02|3B|96|08|00|00|84|84|02|6D|1C|02|E2|01|1F
 33|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 2 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

095: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:8
Stichtag (Tag-Zeit) = 31-01-2007 23:59:00 []			
096: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:8
Energie = 7686 [kWh]			
097: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:8
Volumen = 588636 [l]			
098: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:8
Energie = 7664 [kWh]			
099: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:8
Energie = 0 [kWh]			
100: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:8
Rechtzeitig = 0 [hour]			
101: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:8
#times the meter was stopped = 0 [-]			
102: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:40
Leistung = 71135 [W]			
103: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:40
Stichtag (Tag-Zeit) = 27-01-2007 06:20:00 []			
104: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:72
Durchfluss = 896 [l/h]			
105: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:72
Stichtag (Tag-Zeit) = 02-01-2007 02:28:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

11. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<<

10|5B|FE|59|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|03
 00|00|00|C4|04|6D|3B|17|DF|0C|CC|04|06|25|30|00
 00|CC|04|13|91|80|23|00|CC|14|06|09|30|00|00|CC
 24|06|00|00|00|00|CC|54|14|00|00|00|00|CC|64|14
 00|00|00|00|F2|04|22|00|00|F2|04|FD|75|00|00|DC
 84|01|2B|44|67|06|00|C4|84|01|6D|11|06|DE|0C|DC
 84|02|3B|77|09|00|00|C4|84|02|6D|0D|0B|D7|0C|1F
 62|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 3 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

106: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:9
Stichtag (Tag-Zeit) = 31-12-2006 23:59:00 []			
107: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:9
Energie = 3025 [kWh]			
108: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:9
Volumen = 238091 [l]			
109: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:9
Energie = 3009 [kWh]			
110: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:9
Energie = 0 [kWh]			
111: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:9
Rechtzeitig = 0 [hour]			
112: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:9
#times the meter was stopped = 0 [-]			
113: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:41
Leistung = 66744 [W]			
114: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:41
Stichtag (Tag-Zeit) = 30-12-2006 06:17:00 []			
115: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:73
Durchfluss = 977 [l/h]			
116: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:73
Stichtag (Tag-Zeit) = 23-12-2006 11:13:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

12. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|04
 00|00|00|84|05|6D|3B|17|DE|0B|8C|05|06|00|00|00
 00|8C|05|13|02|00|00|00|8C|15|06|00|00|00|00|8C
 25|06|00|00|00|00|8C|55|14|00|00|00|00|8C|65|14
 00|00|00|00|B2|05|22|00|00|B2|05|FD|75|00|00|9C
 85|01|2B|00|00|00|00|84|85|01|6D|00|00|01|01|9C
 85|02|3B|15|00|00|00|84|85|02|6D|2C|07|D7|0B|1F
 6D|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 4 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

117: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:10
Stichtag (Tag-Zeit) = 30-11-2006 23:59:00 []			
118: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:10
Energie = 0 [kWh]			
119: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:10
Volumen = 2 [l]			
120: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:10
Energie = 0 [kWh]			
121: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:10
Energie = 0 [kWh]			
122: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:10
Rechtzeitig = 0 [hour]			
123: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:10
#times the meter was stopped = 0 [-]			
124: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:42
Leistung = 0 [W]			
125: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:42
Stichtag (Tag-Zeit) = 01-01-2007 00:00:00 []			
126: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:74
Durchfluss = 15 [l/h]			
127: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:74
Stichtag (Tag-Zeit) = 23-11-2006 07:44:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

13. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<

10|5B|FE|59|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|05
 00|00|00|C4|05|6D|3B|17|DF|0A|CC|05|06|00|00|00
 00|CC|05|13|01|00|00|00|CC|15|06|00|00|00|00|CC
 25|06|00|00|00|00|CC|55|14|00|00|00|00|CC|65|14
 00|00|00|00|F2|05|22|00|00|F2|05|FD|75|00|00|DC
 85|01|2B|00|00|00|00|C4|85|01|6D|00|00|01|01|DC
 85|02|3B|79|00|00|00|C4|85|02|6D|0C|07|DA|0A|1F
 F3|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 5 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

128: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:11
Stichtag (Tag-Zeit) = 31-10-2006 23:59:00 []			
129: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:11
Energie = 0 [kWh]			
130: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:11
Volumen = 1 [l]			
131: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:11
Energie = 0 [kWh]			
132: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:11
Energie = 0 [kWh]			
133: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:11
Rechtzeitig = 0 [hour]			
134: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:11
#times the meter was stopped = 0 [-]			
135: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:43
Leistung = 0 [W]			
136: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:43
Stichtag (Tag-Zeit) = 01-01-2007 00:00:00 []			
137: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:75
Durchfluss = 79 [l/h]			
138: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:75
Stichtag (Tag-Zeit) = 26-10-2006 07:12:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

14. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|06
 00|00|00|84|06|6D|3B|17|DF|08|8C|06|06|00|00|00
 00|8C|06|13|00|00|00|00|8C|16|06|00|00|00|00|8C
 26|06|00|00|00|00|8C|56|14|00|00|00|00|8C|66|14
 00|00|00|00|B2|06|22|00|00|B2|06|FD|75|00|00|9C
 86|01|2B|00|00|00|00|84|86|01|6D|00|00|00|00|9C
 86|02|3B|00|00|00|00|84|86|02|6D|00|00|00|00|1F
 4C|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 6 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

139: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:12
Stichtag (Tag-Zeit) = 31-08-2006 23:59:00 []			
140: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:12
Energie = 0 [kWh]			
141: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:12
Volumen = 0 [l]			
142: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:12
Energie = 0 [kWh]			
143: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:12
Energie = 0 [kWh]			
144: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:12
Rechtzeitig = 0 [hour]			
145: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:12
#times the meter was stopped = 0 [-]			
146: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:44
Leistung = 0 [W]			
147: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:44
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			
148: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:76
Durchfluss = 0 [l/h]			
149: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:76
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

15. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<

10|5B|FE|59|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|07
 00|00|00|C4|06|6D|3B|17|DF|07|CC|06|06|00|00|00
 00|CC|06|13|00|00|00|00|CC|16|06|00|00|00|00|CC
 26|06|00|00|00|00|CC|56|14|00|00|00|00|CC|66|14
 00|00|00|00|F2|06|22|00|00|F2|06|FD|75|00|00|DC
 86|01|2B|00|00|00|00|C4|86|01|6D|00|00|00|00|DC
 86|02|3B|00|00|00|00|C4|86|02|6D|00|00|00|00|1F
 8C|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 7 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

150: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:13
Stichtag (Tag-Zeit) = 31-07-2006 23:59:00 []			
151: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:13
Energie = 0 [kWh]			
152: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:13
Volumen = 0 [l]			
153: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:13
Energie = 0 [kWh]			
154: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:13
Energie = 0 [kWh]			
155: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:13
Rechtzeitig = 0 [hour]			
156: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:13
#times the meter was stopped = 0 [-]			
157: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:45
Leistung = 0 [W]			
158: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:45
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			
159: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:77
Durchfluss = 0 [l/h]			
160: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:77
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

16. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|08
 00|00|00|84|07|6D|3B|17|DE|06|8C|07|06|00|00|00
 00|8C|07|13|00|00|00|00|8C|17|06|00|00|00|00|8C
 27|06|00|00|00|00|8C|57|14|00|00|00|00|8C|67|14
 00|00|00|00|B2|07|22|00|00|B2|07|FD|75|00|00|9C
 87|01|2B|00|00|00|00|84|87|01|6D|00|00|00|00|9C
 87|02|3B|00|00|00|00|84|87|02|6D|00|00|00|00|1F
 58|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 8 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

161: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:14
Stichtag (Tag-Zeit) = 30-06-2006 23:59:00 []			
162: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:14
Energie = 0 [kWh]			
163: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:14
Volumen = 0 [l]			
164: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:14
Energie = 0 [kWh]			
165: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:14
Energie = 0 [kWh]			
166: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:14
Rechtzeitig = 0 [hour]			
167: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:14
#times the meter was stopped = 0 [-]			
168: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:46
Leistung = 0 [W]			
169: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:46
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			
170: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:78
Durchfluss = 0 [l/h]			
171: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:78
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

17. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<<

10|5B|FE|59|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|09
 00|00|00|C4|07|6D|3B|17|DF|05|CC|07|06|00|00|00
 00|CC|07|13|00|00|00|00|CC|17|06|00|00|00|00|CC
 27|06|00|00|00|00|CC|57|14|00|00|00|00|CC|67|14
 00|00|00|00|F2|07|22|00|00|F2|07|FD|75|00|00|DC
 87|01|2B|00|00|00|00|C4|87|01|6D|00|00|00|00|DC
 87|02|3B|00|00|00|00|C4|87|02|6D|00|00|00|00|1F
 99|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : 9 Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

172: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:15
Stichtag (Tag-Zeit) = 31-05-2006 23:59:00 []			
173: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:15
Energie = 0 [kWh]			
174: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:15
Volumen = 0 [l]			
175: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:15
Energie = 0 [kWh]			
176: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:15
Energie = 0 [kWh]			
177: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:15
Rechtzeitig = 0 [hour]			
178: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:15
#times the meter was stopped = 0 [-]			
179: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:47
Leistung = 0 [W]			
180: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:47
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			
181: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:79
Durchfluss = 0 [l/h]			
182: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:79
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

18. Telegram >>> REQ_UD2

10|7B|FE|79|16

<<<

10|7B|FE|79|16

68|6C|6C|68|08|00|72|45|00|94|63|AE|4C|08|04|0A
 00|00|00|84|08|6D|3B|17|DE|04|8C|08|06|00|00|00
 00|8C|08|13|00|00|00|00|8C|18|06|00|00|00|00|8C
 28|06|00|00|00|00|8C|58|14|00|00|00|00|8C|68|14
 00|00|00|00|B2|08|22|00|00|B2|08|FD|75|00|00|9C
 88|01|2B|00|00|00|00|84|88|01|6D|00|00|00|00|9C
 88|02|3B|00|00|00|00|84|88|02|6D|00|00|00|00|1F
 65|16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : A Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

183: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:16
Stichtag (Tag-Zeit) = 30-04-2006 23:59:00 []			
184: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:16
Energie = 0 [kWh]			
185: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:16
Volumen = 0 [l]			
186: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:16
Energie = 0 [kWh]			
187: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:16
Energie = 0 [kWh]			
188: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:16
Rechtzeitig = 0 [hour]			
189: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:16
#times the meter was stopped = 0 [-]			
190: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:48
Leistung = 0 [W]			
191: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:48
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			
192: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:80
Durchfluss = 0 [l/h]			
193: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:80
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			

DIB = 1F Manufacturer specific data, more records in next telegram

19. Telegram >>> REQ_UD2

10|5B|FE|59|16

<<<

10|5B|FE|59|16

68|6B|6B|68|08|00|72|45|00|94|63|AE|4C|08|04|0B
 00|00|00|C4|08|6D|3B|17|DF|03|CC|08|06|00|00|00
 00|CC|08|13|00|00|00|00|CC|18|06|00|00|00|00|CC
 28|06|00|00|00|00|CC|58|14|00|00|00|00|CC|68|14
 00|00|00|00|F2|08|22|00|00|F2|08|FD|75|00|00|DC
 88|01|2B|00|00|00|00|C4|88|01|6D|00|00|00|00|DC
 88|02|3B|00|00|00|00|C4|88|02|6D|00|00|00|00|87
 16

Primäre M-Bus-Adresse : 0 (0 Hex)

Zähler-ID : 63940045

Hersteller : 4CAE Hex, SEN

Zählerversion : 8 Hex

Gemessenes Medium : 4 Hex, Rücklauftemperatur

Zugriffsnummer : B Hex

Zähler Status : 0 Hex

Signatur : 0 Hex

Zählwerk:

194: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:17
Stichtag (Tag-Zeit) = 31-03-2006 23:59:00 []			
195: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:17
Energie = 0 [kWh]			
196: Aktueller Wert BCD-8	Unit:0	Tariff:0	Storage No:17
Volumen = 0 [l]			
197: Aktueller Wert BCD-8	Unit:0	Tariff:1	Storage No:17
Energie = 0 [kWh]			
198: Aktueller Wert BCD-8	Unit:0	Tariff:2	Storage No:17
Energie = 0 [kWh]			
199: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:17
Rechtzeitig = 0 [hour]			
200: Fehlerwert Int-16	Unit:0	Tariff:0	Storage No:17
#times the meter was stopped = 0 [-]			
201: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:49
Leistung = 0 [W]			
202: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:49
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			
203: Maximaler Wert BCD-8	Unit:0	Tariff:0	Storage No:81
Durchfluss = 0 [l/h]			
204: Aktueller Wert Int-32	Unit:0	Tariff:0	Storage No:81
Stichtag (Tag-Zeit) = 30-12-1899 00:00:00 []			

REQ:UD2 erfolgreich beendet.

27.08.2007 12:28:30 Die Auslesung mit dem Treiber Serial-MBus ist beendet.
