

Byte no	Field Name	Value encrypted (HEX)	Value decrypted (HEX)	Description
1	L Field	2E	2E	Length of data
2	C Field	44	44	Function code (send/no reply)
3	M Field	01	01	Manufacturer code
4	M Field	06	06	Manufacturer code
5	A Field	65	65	Meter ID
6	A Field	77	77	Meter ID
7	A Field	01	01	Meter ID
8	A Field	80	80	Meter ID
9	A Field	01	01	Version
10	A Field	16	16	Device type (Cold water)
11	CRC			
12	CRC			
13	CI Field	7A	7A	7A means 4 bytes header (short data-header, encryption is not applied)
14	Access No	5D	5D	Synchronous transmission counter
15	Status	03	03	status byte (power ok / no perm error) -- at least one error flag is set
16	Config Word	20	20	2 encrypted blocks
17	Config Word	05	05	Mode 5 encryption – Non access – async
18	AES VERIFY	E0	2F	Encryption verification (idle filler)
19	AES VERIFY	8B	2F	Encryption verification (idle filler)
20	DR1	FF	04	DIF (32bit int – storage nr 0 - currently measured volume)
21	DR1	39	13	VIF (Volume liter)
22	DR1	18	96	Current volume value in Hex = 00000496 Liter Current volume value in Decimal = 1174 Liter
23	DR1	12	04	
24	DR1	DC	00	
25	DR1	0A	00	
26	DR2	18	03	
27	DR2	4F	FD	VIF (FD table)
28	DR2	C1	17	VIFE (Manufacturer specific error code)
29	CRC			
30	CRC			
31	DR2	9D	0C	last month error flags code
32	DR2	FA	0C	this month error flags code
33	DR2	11	0C	current error flags code
34	DR3	85	44	DIF (32bit int - storage no 1- stored volume on 1st day of a month)
35	DR3	B1	13	VIF (Volume liter)
36	DR3	A8	96	Stored volume value LSB - 1174 liter
37	DR3	53	04	Stored volume value
38	DR3	9A	00	Stored volume value
39	DR3	54	00	Stored volume value MSB
40	DR4	94	04	DIF (32 bit int - storage no 2)
41	DR4	32	93	VIF
42	DR4	92	3C	VIFE
43	DR4	BC	20	Reverse volume value LSB - 32 liter
44	DR4	72	00	Reverse volume value
45	DR4	8D	00	Reverse volume value
46	DR4	D3	00	Reverse volume value MSB
47	CRC			
48	CRC			
49	AES VERIFY	99	2F	Encryption verification (idle filler)
50	AES VERIFY	D0	2F	Encryption verification (idle filler)
51	AES VERIFY	A5	2F	Encryption verification (idle filler)
52	AES VERIFY	EE	2F	Encryption verification (idle filler)
53	AES VERIFY	A8	2F	Encryption verification (idle filler)
54	CRC			
55	CRC			

Legend:

non-encrypted data
header (non-encrypted)
1st encrypted block
2nd encrypted block
value of flow
CRC

byte	bit	flag type	tag	explanation
0	0 (LSB)	Last month	tamper	-
	1		battery low	-
	2		dry	30 seconds without water
	3		absent of flow	lack of flow 30 days
	4		reserved	-
	5		burst	above Q4 30sec
	6		reverse flow	Volume corresponding to Q3 for 45 seconds
	7		leak	permanent flow above 0.3*Q2 for 240 min.
1	0 (LSB)	This month	tamper	-
	1		battery low	-
	2		dry	30 seconds without water
	3		absent of flow	lack of flow 30 days
	4		reserved	-
	5		burst	above Q4 30sec
	6		reverse flow	Volume corresponding to Q3 for 45 seconds
	7		leak	permanent flow above 0.3*Q2 for 240 min.
2	0 (LSB)	Current	tamper	-
	1		battery low	-
	2		dry	30 seconds without water
	3		absent of flow	lack of flow 30 days
	4		reserved	-
	5		burst	above Q4 30sec
	6		reverse flow	Volume corresponding to Q3 for 45 seconds
	7		leak	permanent flow above 0.3*Q2 for 240 min.

Table 1 Description of error code - 3 bytes