



# FNF TEKNOLOJİ SAN. VE TİC AŞ.

## HEAT METER

### M-BUS TECHNICAL DATASHEET

#### **Content overview**

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- 8. Secondary address**



## 6. TELEGRAM STRUCTURE

1	68	Start Field
2	4F	Lenght Field
3	4F	Lenght Field
4	68	Start Field
5	08	C field
6	01	Primary Adress
7	72	CI Field
8	69	Secondary Adres (70032569)
9	25	Secondary Adres
10	03	Secondary Adres
11	70	Secondary Adres
12	C6	Manufacture Code (19C6: FNF)
13	19	Manufacture Code (19C6: FNF)
14	01	Version number
15	04	Device Type
16	03	ACC
17	00	status
18	00	erorrs
19	00	sign.
20	0C	DIF 4 BYTE BCD
21	06	VIF WH * 1000
22	00	123456Kwh
23	56	
24	34	
25	12	
26	0C	DIF 4 BYTE BCD
27	14	VIF M3
28	01	1M^3
29	00	
30	00	
31	00	
32	0C	DIF 4 BYTE BCD
33	22	WORKHOURS
34	45	2545H
35	25	
36	00	
37	00	
38	0C	DIF 4 BYTE BCD
39	2E	POWER*1000
40	00	
41	00	
42	00	
43	00	
44	0C	DIF 4 BYTE BCD

45	3B	VIF FLOW RATE m3/H
46	00	
47	00	
48	00	
49	00	
50	0A	DIF 2 BYTE INTEGER
51	59	INLED TEMP / 100
52	01	50.01 oC
53	50	
54	0A	DIF 2 BYTE INTEGER
55	5D	RETURN TEMP / 100
56	00	45.00 Oc
57	45	
58	0A	DIF 2 BYTE INTEGER
59	61	TEMP DIFF
60	01	05.01 Oc
61	05	
62	42	DIF 2 BYTE INTEGER
63	6C	VIF DATE
64	EC	
65	2C	
66	CC	DIF 4 BYTE
67	41	DIFE : STORAGE 1TARIFF 0
68	06	VIF KWH
69	06	
70	00	
71	00	
72	00	
73	CC	DIF 4 BYTE
74	41	DIFE : STORAGE 1TARIFF 0
75	06	VIF KWH
76	00	
77	00	
78	00	
79	00	
80	09	DIF it has DIFE and Storage value
81	FD	VIF WH
82	18	ERROR BITS
83	00	
84	CRC	CRC
85	16	STOP

## 7. CHANGING PRIMARY ADDRESS

Query: SND\_UD

(Byte 6 = actual M-Bus address; Byte 10 = new address)

Response: 0xE5

### Telegram structure (brief)

0x68	0x06	0x06	0x68	0x53	Padr
0x51	0x01	0x7A	Neue A	Csum	0x16

### Telegram structure (detailed)

Byte	Value	Description
1	0x68	Start
2	0x06	Field length
3	0x06	Field length
4	0x68	Start
5	0x53	C
6		Primary address
7	0x51	CI
8	0x01	DIF
9	0x7A	VIF
10		New address
11		Checksum
12	0x16	Stop

## 8. SECONDARY ADDRESS

Query: SND\_UD

Response: 0xE5

### Telegram structure (brief)

68	0B	0B	68	53	FD
52	ID1	ID2	ID3	ID4	MAN1
MAN2	DEV	MED	Csum	16	

### Telegram structure (detailed)

Byte	Value	Description
1	0x68	Start
2	0x0B	Field length
3	0x0B	Field length
4	0x68	Start
5	0x53	C
6	0xFD	Address selection for secondary addressing
7	0x52	CI
8	ID1	ID1
9	ID2	ID2
10	ID3	ID3
11	ID4	ID4
12	MAN1	MAN1
13	MAN2	MAN2
14	DEV	DEV
15	MED	MED
16	Csum	Csum
17	0x16	Stop