

342



ADW2xx

V1.7



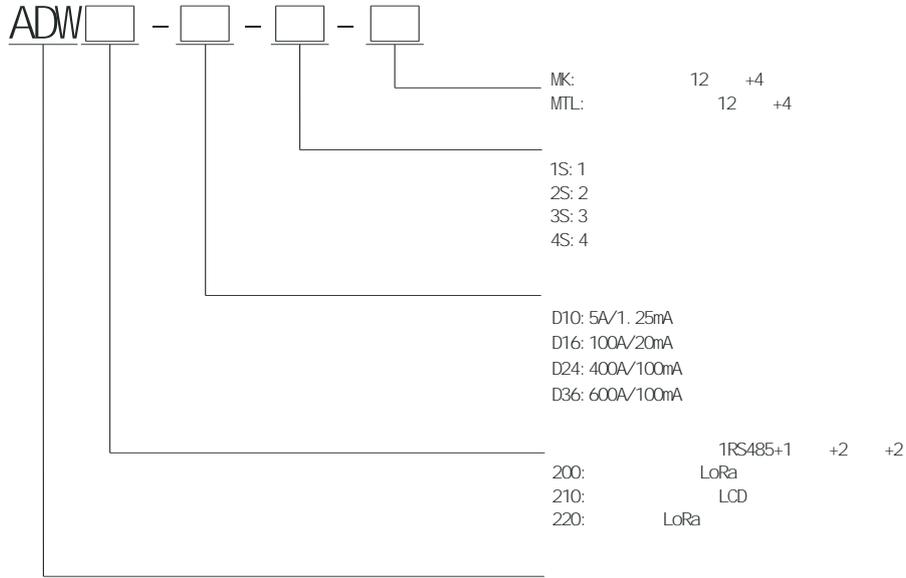
1	.....	1
2	.....	1
2.1	.....	1
2.2	.....	1
3	.....	1
3.1	.....	1
3.2	.....	2
3.3	.....	2
3.4	.....	3
4	.....	3
4.1	(     mm).....	3
4.2	.....	4
4.3	.....	5
5	.....	6
5.1	.....	6
5.2	.....	7
5.3	.....	7
5.4	.....	9
6	.....	15
6.1	.....	15
6.2	.....	38
6.3	.....	39
7	.....	41

1

ADW2xx

2

2.1



- : 1. 2
- 2. MK+MTL+AWT 3.1
- 3. **AKH-0.66/K- 10N** 1
- 4.

2.2

1 ADW2xx

3x 220/380V	ADW2xx-D10-NS(5A)	3x 5A	AKH-0.66/K- 10N 0.5
	ADW2xx-D16-NS(100A)	3x 100A	AKH-0.66/K- 16N 0.5
	ADW2xx-D24-NS(400A)	3x 400A	AKH-0.66/K- 24N 0.5
	ADW2xx-D36-NS(600A)	3x 600A	AKH-0.66/K- 36N 0.5
/	ADW200-MTL	/	AKH-0.66-L-45 1

: **AKH-0.66/K- 10N** **1**

3

3.1

N 1 2 3 4  
/

/ /  
2-31

200 DIDO  
DI  
4 14  
12  
31 ,  
RS485  
RJ45  
(MK) 12 +4  
(MTL) 12 NTC +4  
(AWT100-2G) 2G  
(AWT100-4G) 4G  
(AWT100-NB) NB-IoT  
(AWT100-LoRa) LoRa  
(AWT100-LW) LoRaWAN

### 3.2

2 ADW2xx

		AC/DC 85 265V	10VA
		45 65Hz	
		AC 3× 220V/380V	
		1.2 2 /1	
		0.5VA	
		AC 5A 100A 400A 600A	
		1.2 10 /1 ;	
		0.05Hz 0.5 1 2	
		2 31 ± 1%	
	RS485	Modbus-RTU	1200 38400
		AC 250V/3A DC 30V/3A	

### 3.3

3 ADW2xx

		RJ45	DC 12V	1W
		RJ45	Modbus-RTU	
			AC 250V/3A DC 30V/3A	
		RJ45	DC 12V	1W

		RJ45	Modbus-RTU
		NTC	-20 100
			10 3000mA
		± 2	1

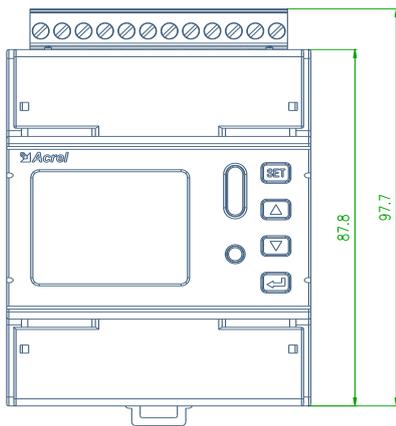
### 3.4

		4
		>AC 2kV/1min
		>100M
		-20 +60 -40 +70 95% 2500m
		3

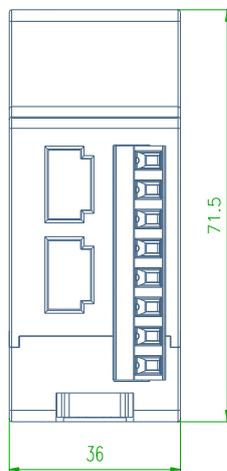
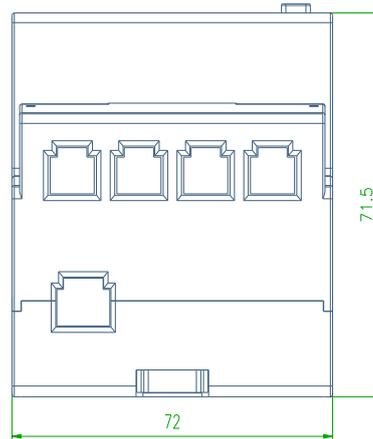
## 4

### 4.1 ( mm)

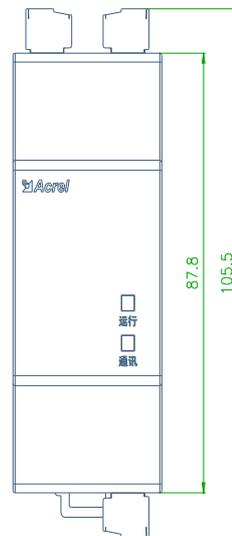
(1) ADW2xx



1 ADW2xx



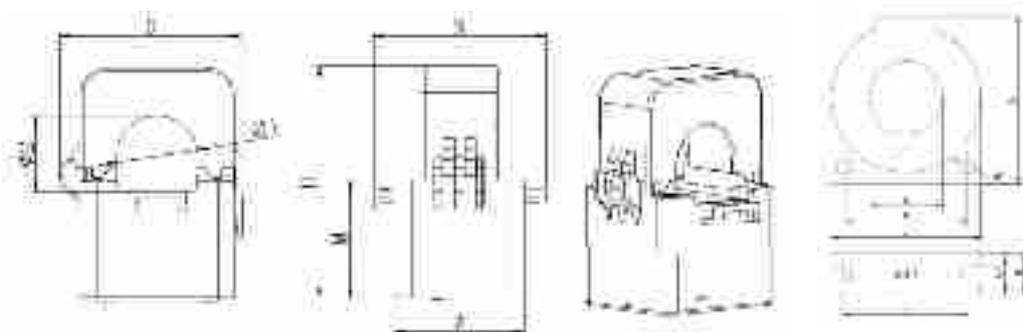
2 ADW2xx



5 ADW2xx

	mm				mm	mm
ADW2xx	87.8	72	71.5	97.7	35	± 1
ADW2xx	87.8	36	71.5	105.5	35	

(2)



3

6

	mm					mm		mm
	W	H	D	M	N	1	2	
AKH-0.66/K- 10N	27	44	32	25	36	10	9	± 1
AKH-0.66/K- 16N	31	50	36	27	42	16	17	
AKH-0.66/K- 24N	39	71	46	36	52	24	23.5	
AKH-0.66/K- 36N	42.5	82	58	40	56	33.5	35	

		A/mm	B/mm	C/mm	D/mm	E/mm	F/mm	G/mm	H/mm	/kg
AKH-0.66-L-45 1	16-100	77	25	5	6	45	64	75	68	0.18

CH1 4

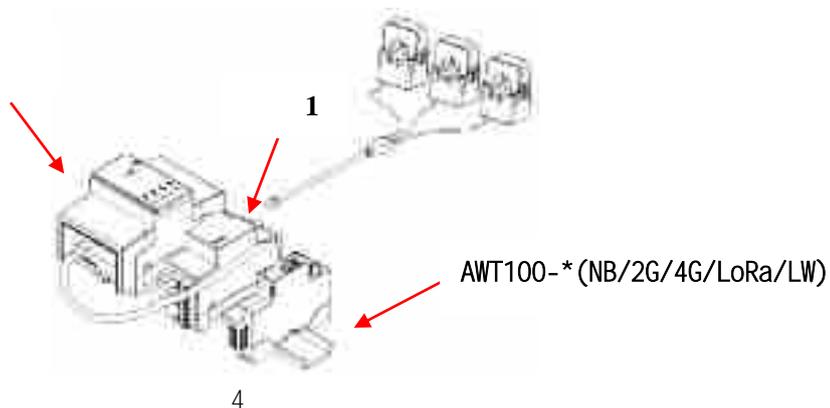
3

1m

4.2

ADW2xx

;



4

4

: AKH-0.66/K- 10N

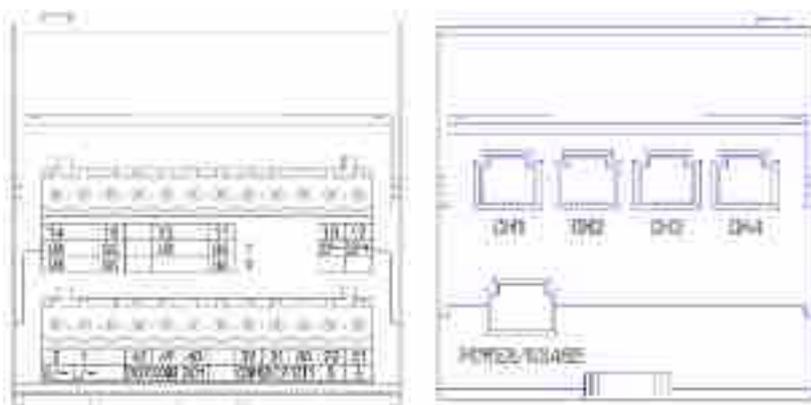
1

AWT100 ;  
20cm;  
15cm;

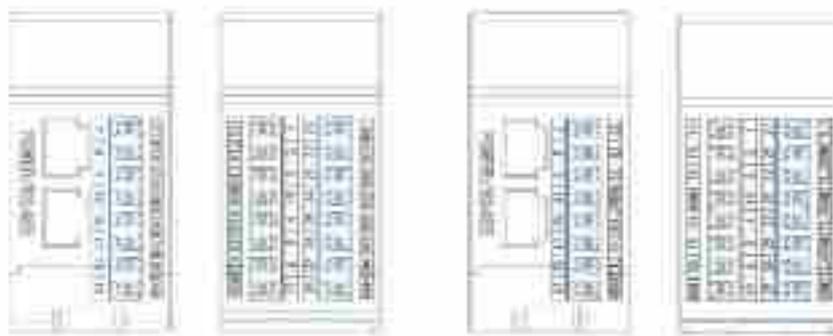
;

1

4.3



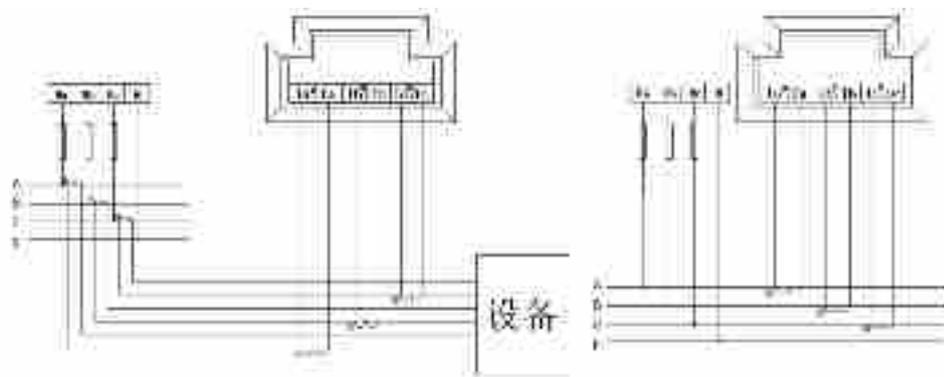
5



MK

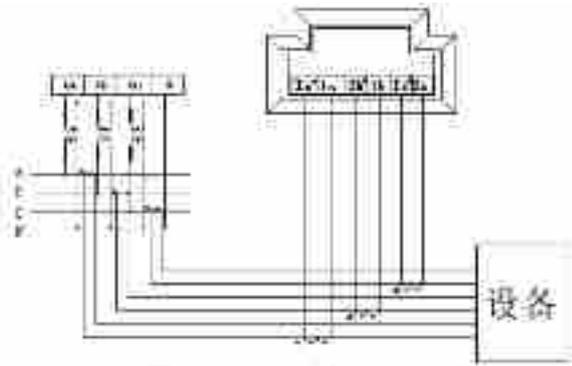
MTL

6

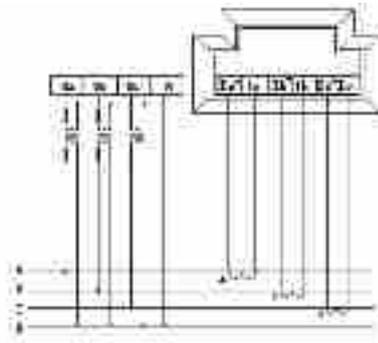


7 三相四线(电流二次接入)

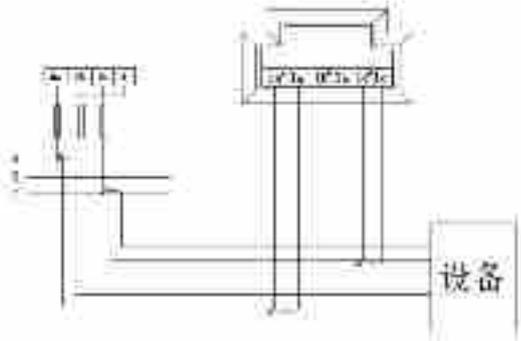
8 三相四线(电流直接接入)



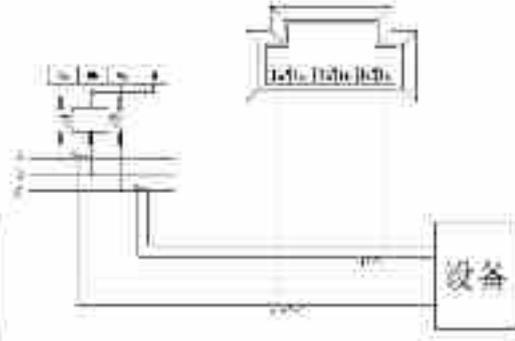
9 三相四线(电压、电流二次接入)



10 三相四线(电压、电流直接接入)



11 三相三线(电流经互感器接入)



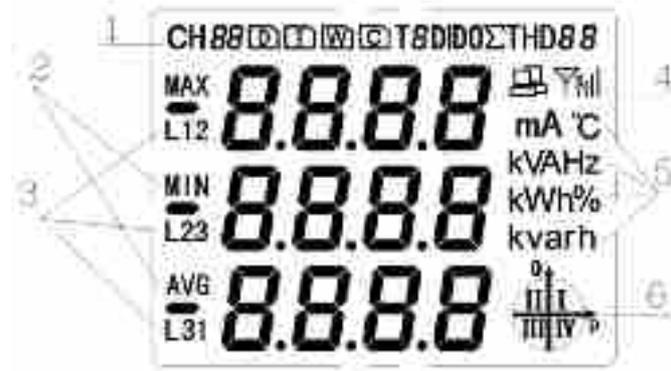
12 三相三线(电压、电流经互感器接入)

5

5.1

SET	SET	0001

5.2



?

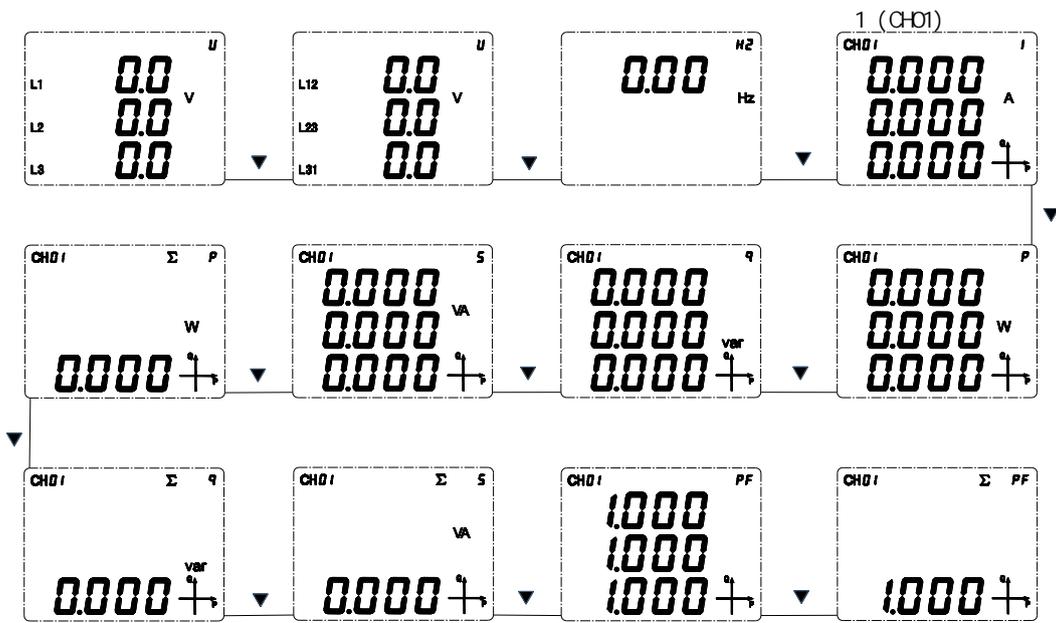
13

7

1	CH01, CH02, CH03, CH04	1-4
	I/P/Q/S/PF/U/HZ/	88 / / / / / /
	THD88	
	D T W C	485 D T W C
	T1, T2, T3, T4	T1 T2 T3 T4
2	MAX/MIN/AVG	/ /
3	L1, L2, L3, L12, L23, L31	L1, L2, L3 L12, L23, L31
4		
5		A, kA V, kV kW mA Kvar kVA %
6		
7		

5.3

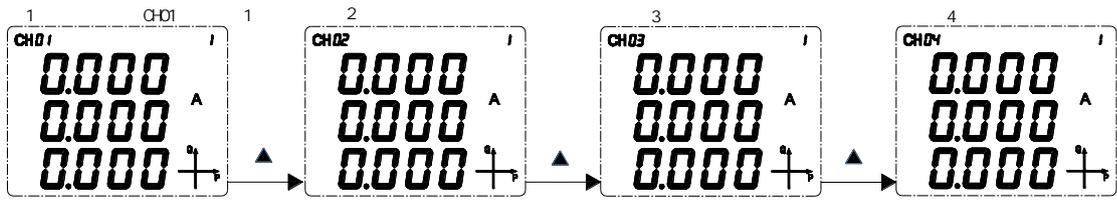
5.3.1



1.L1 L2 L3 UA UB UC, L12 L23 L31 Uab Ubc Uca

2. "CH01" "CH02" " CH03" " CH04"

3. " "



5.3.2

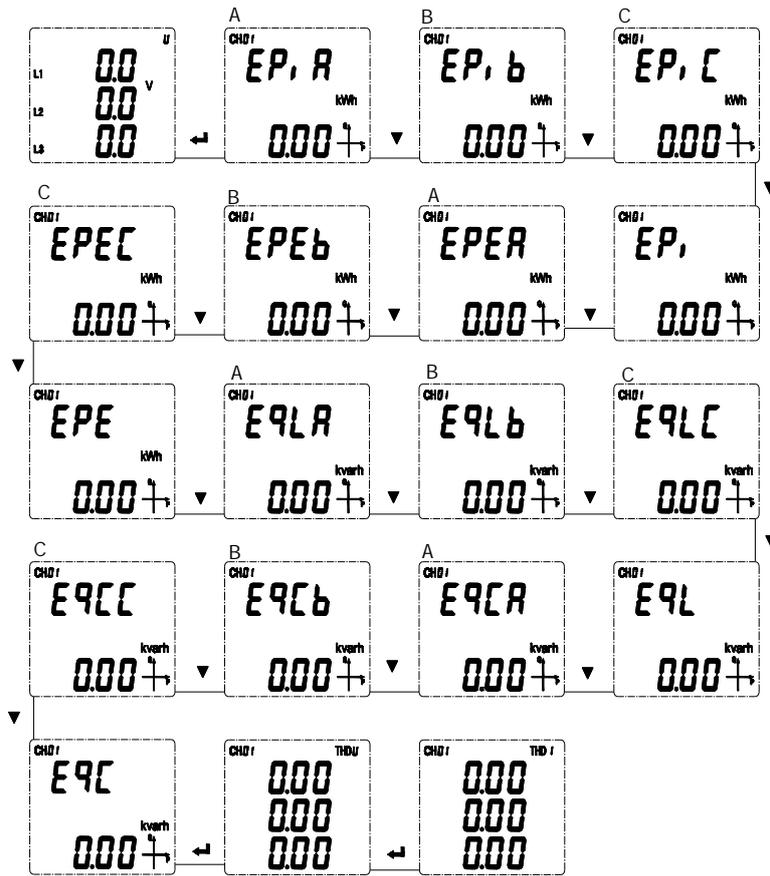
A/B/C

A/B/C

A/B/C

/

A/B/C



5.3.1 3

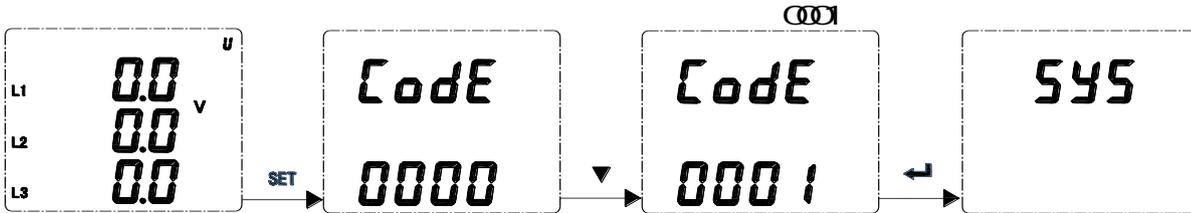
5.4

SYS	Code	0 9999	
	PLUS	1A: 6400 5A: 1600 100A: 400 400A: 100 600A: 60	
	bled	0 250s	
	RP	L1 L2 L3 L4 t, nE 1L 1L2 1L3 1L4	L1-L4 4 t, nE 1L1-1L4 1L 1-4 4
ELr	6401: 6402: 6403: 6404: 6405:		

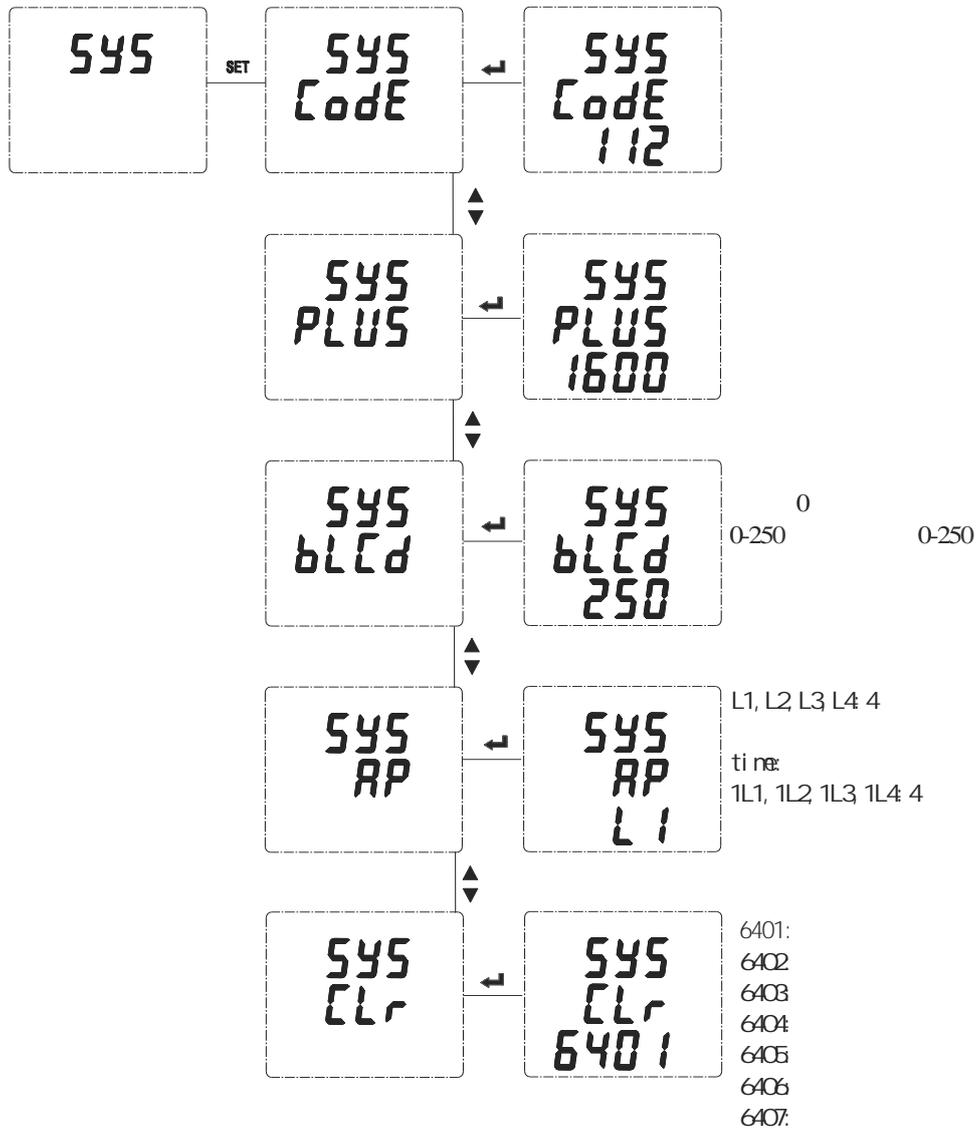
		6406: 6407:	
i n	Line	3P4L: 3P3L:	
	UPr	220-65000V	
	USEC	100V 220V	
	i.Pr	5-50000A	
	i.SEC	1A 5A 100A 400A 600A	
	U.noñ	220-65000V	
	F.noñ	45-65Hz	
1 Coñ 1	Addr	1 247	
	bRUd	1200 2400 4800 9600 19200 38400	
	dRtR	n.B.2 ,2 n.B.1 ,1 o.B.1 E.B.1	
dñd	ñodE	SL, P F, 4	
	y, d	1-999s	
	Pd	1-30T	
do-1 do-2	SEL	0: 1-34	( 5.4.6)
	RLCH	CH1-4	
	dLY	0-9999S	
	bRnd	1	

	RLHi	999	
	RLLo	0	
	In=0	ON or OFF	

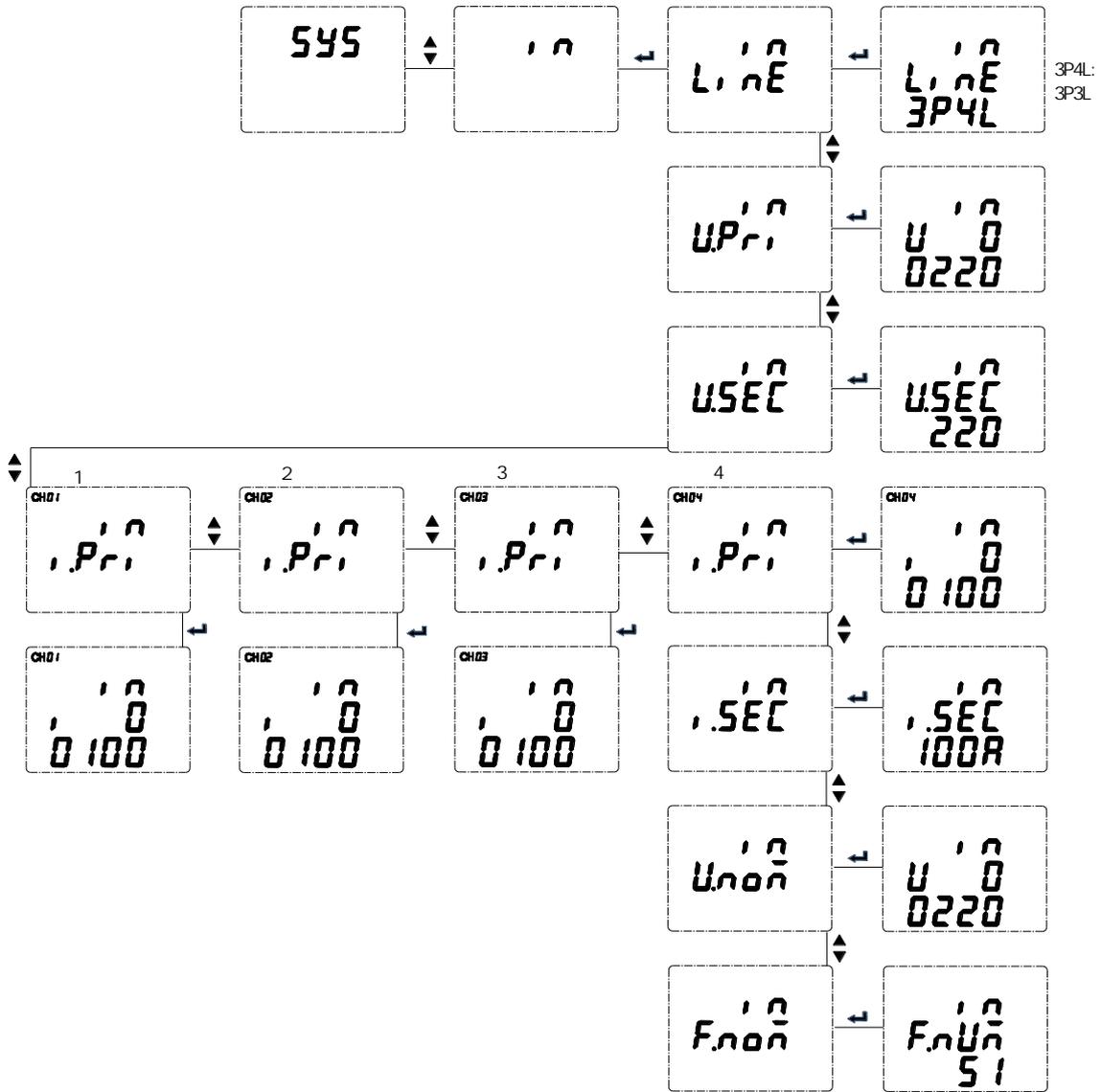
5.4.1



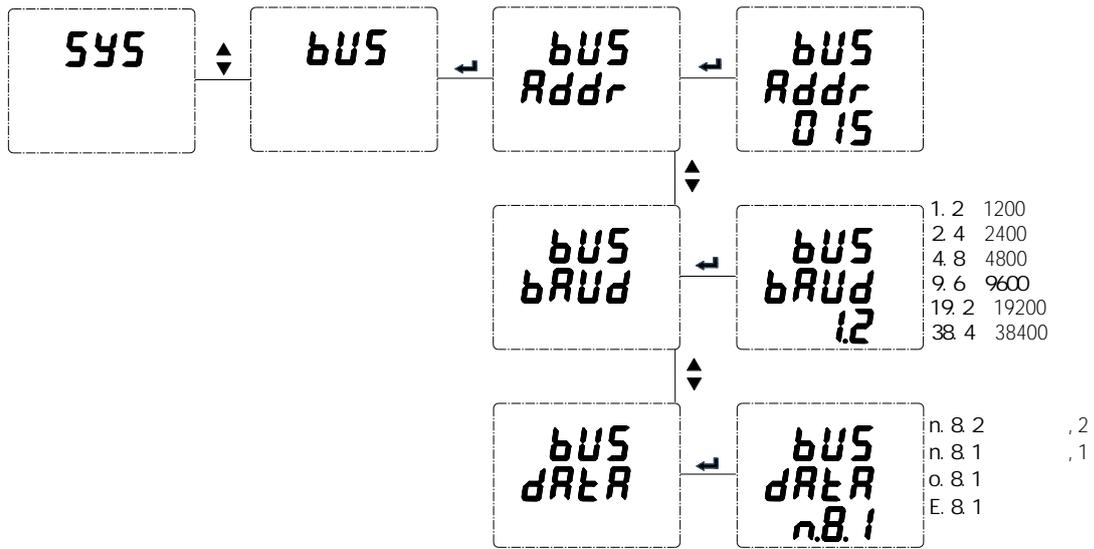
5.4.2



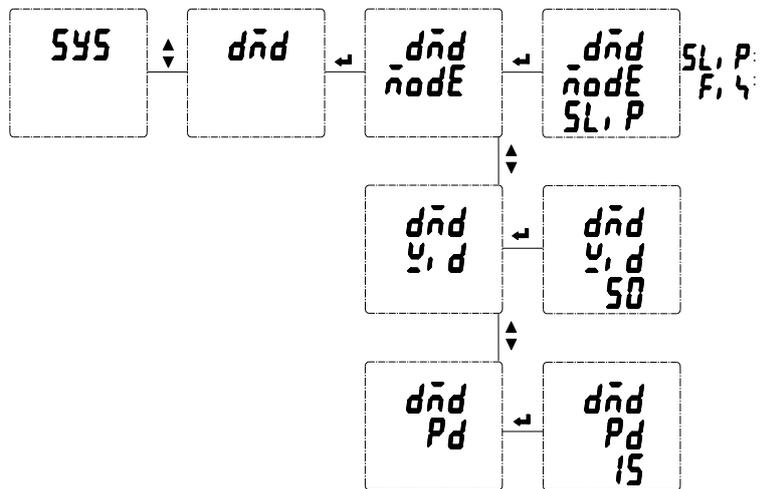
5.4.3



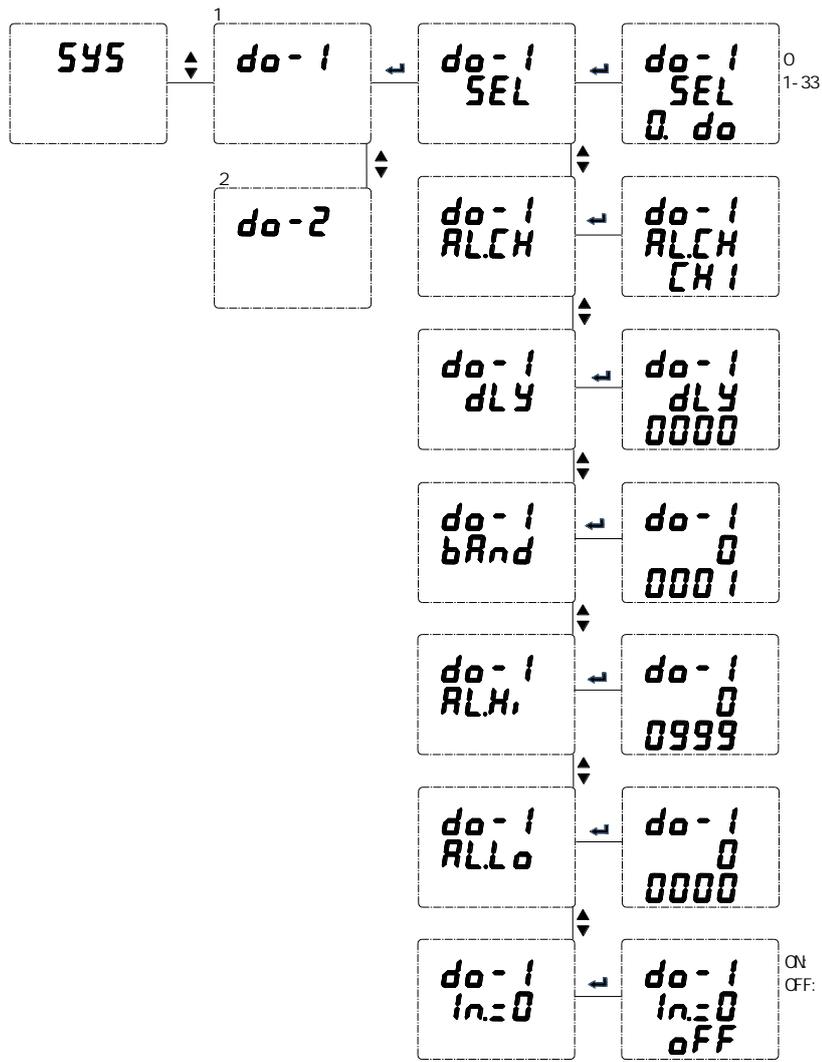
5. 4. 4



5. 4. 5



5. 4. 6

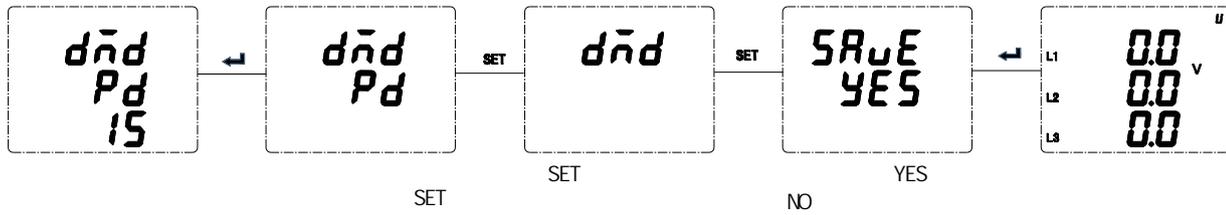


8

<i>do. 1</i>									
<i>ALCH</i>									
<i>SEL</i>	00	01	02	03	04	05	06	07	
		UA	UB	UC		UAB	UBC	UCA	
	08		09	10	11	12		13	14
			IA	IB	IC			PA	PB
	15	16	17	18	19	20	21	22	23
	PC	P	QA	QB	QC	Q	SA	SB	SC
	24	25	26	27	28	29	30		31
	S	PFA	PFB	PFC	PF	F			
	32			33			34		
	DI1( )			DI2( )					
" In. 0"			" on"			2 DO			
<i>dLY</i>	SEL 00		DLY						

	SEL	00	DLY
bAnd			
ALH <sub>i</sub>		9999	
ALL <sub>o</sub>		0	
In=0	0	, on	off

5.4.7



6

6.1

ADW2XX

			/				
00H		1	R/W		uint16_t	1	1-247
01H		1	R/W		uint16_t	3 9600	0 1200 1 2400 2 4800 3 9600 4 19200 5 38400
02H		1	R/W		uint16_t	0	0:N 8 1 1:E 8 1 2:0 8 1 3:N 8 2
03H		1	R/W				
04H		1	R/W				
05H		1	R/W	S	uint16_t	30	0-250S 0
06H-07H		2	R		uint32_t		
08H-09H		2	R		uint32_t		
0AH-0BH		2	R/W				
0CH		1	R/W		uint16_t	1	1 10 100
0DH		1	R/W		uint16_t	9	7-12
0EH		1	R/W		uint16_t	5	0-45
0FH		1	R/W		uint16_t	0	0: 3P4L 2: 3P3L
10H		1	W		uint16_t		0x6401: 0x6402: 0x6403: 0x6404: 0x6405: 0x6406: 0x6407:
11H		1	R		uint16_t	1600	1A: 6400 5A: 1600 100A: 400 400A: 100 600A: 60

12H		1	R/W		uint16_t	0	0: CH1 1: CH2 2: CH3 3: CH4 4: 5: CH1 6: CH2 7: CH3 8: CH4
13H		1	R/W	V	uint16_t	220	220-65000V
14H	CH1	1	R/W	A	uint16_t	100	5-50000A
15H	CH2	1	R/W	A	uint16_t	100	5-50000A
16H	CH3	1	R/W	A	uint16_t	100	5-50000A
17H	CH4	1	R/W	A	uint16_t	100	5-50000A
18H		1	R/W	A	uint16_t	100	1A 5A 100A 400A 600A
19H		1	R/W	V	uint16_t	220	220-65000V
1AH		1	R/W	Hz	uint16_t	50	
1BH		1	R/W	V	uint16_t	10	
1CH	D01	1	R/W		uint16_t	0	0x00: CH1 0x01: CH2 0x02: CH3 0x03: CH4
1DH	#1 D01	1	R/W		uint16_t	0	0: 1-34 5.4.6
1EH	#1	1	R/W	S	uint16_t	0	0-9999
1FH	#1	1	R/W		uint16_t	1	
20H	#1	1	R/W		uint16_t	999	
21H	#1	1	R/W		uint16_t	0	
22H	#1	1	R/W		uint16_t	0	0 1
23H-29H	#2 D02	7	R/W		uint16_t		1
2AH	#D01_S1	1	R/W				0 1
2BH	#D02_S1	1	R/W				
2CH	#D03_S1	1	R/W				
2DH	#D04_S1	1	R/W				
2EH	#D01_S2	1	R/W				0 2 1
2FH	#D02_S2	1	R/W				
30H	#D03_S2	1	R/W				
31H	#D04_S2	1	R/W				
32H	/	1	R/W		uint16_t		
33H	/	1	R/W		uint16_t		

34H	/	1	R/W		uint16_t		
35H	/	1	R/W		uint16_t		
36H	D11	1	R/W		uint16_t		
37H	D12	1	R/W		uint16_t		
38H		1	R/W		uint16_t	0x0016	hour
39H		1	R/W		uint16_t	0	0: 1:
3AH	(t)	1	R/W		uint16_t	60	1-9999S
3BH	(T)	1	R/W		uint16_t	15	1-30t
3CH	D01	1	R/W		uint16_t		0 1
3DH	D02	1	R/W		uint16_t		0 1
3EH		1	R/W		uint16_t		0 1-9999
3FH-44H	1 1 1 " 4 4 4	3x4/2	R/W		uint8_t		01 02
45H-59H	1 1 1 " 14 14 14	3x14/2	R/W		uint8_t		01 02 03 04
5AH-6EH	1 1 1 " 14 14 14	3x14/2	R/W		uint8_t		01 02 03 04
6FH		1	R/W		uint16_t	0x1C13	-
70H-76H		7	R/W		uint8_t	acrel 000 001234	ASCII

**1**

			/		
100-101	CH1 A	2	R	V	float

102-103	CH1 B	2	R	V	float
104-105	CH1 C	2	R	V	float
106-107	CH1 AB	2	R	V	float
108-109	CH1 BC	2	R	V	float
10A-10B	CH1 CA	2	R	V	float
10C-10D	CH1	2	R	Hz	float
10E-10F	CH1 A	2	R	A	float
110-111	CH1 B	2	R	A	float
112-113	CH1 C	2	R	A	float
114-115	CH1	2	R	A	float
116-117	CH1 A	2	R	W	float
118-119	CH1 B	2	R	W	float
11A-11B	CH1 C	2	R	W	float
11C-11D	CH1	2	R	W	float
11E-11F	CH1 A	2	R	var	float
120-121	CH1 B	2	R	var	float
122-123	CH1 C	2	R	var	float
124-125	CH1	2	R	var	float
126-127	CH1 A	2	R	VA	float
128-129	CH1 B	2	R	VA	float
12A-12B	CH1 C	2	R	VA	float
12C-12D	CH1	2	R	VA	float
12E-12F	CH1 A	2	R		float
130-131	CH1 B	2	R		float
132-133	CH1 C	2	R		float
134-135	CH1	2	R		float
136-137	CH1 A	2	R	kWh	float
138-139	CH1 B	2	R	kWh	float
13A-13B	CH1 C	2	R	kWh	float
13C-13D	CH1	2	R	kWh	float
13E-13F	CH1 A	2	R	kWh	float
140-141	CH1 B	2	R	kWh	float
142-143	CH1 C	2	R	kWh	float
144-145	CH1	2	R	kWh	float
146-147	CH1 A	2	R	kvarh	float
148-149	CH1 B	2	R	kvarh	float
14A-14B	CH1 C	2	R	kvarh	float
14C-14D	CH1	2	R	kvarh	float
14E-14F	CH1 A	2	R	kvarh	float
150-151	CH1 B	2	R	kvarh	float
152-153	CH1 C	2	R	kvarh	float
154-155	CH1	2	R	kvarh	float

**2 3 4**

**1**

156-157	CH2A	1AC-1AD	CH3 A	202-203	CH4 A
158-159	CH2B	1AE-1AF	CH3 B	204-205	CH4 B

15A-15B	CH2C	1B0-1B1	CH3 C	206-207	CH4 C
15C-15D	CH2AB	1B2-1B3	CH3 AB	208-209	CH4 AB
15E-15F	CH2BC	1B4-1B5	CH3 BC	20A-20B	CH4 BC
160-161	CH2CA	1B6-1B7	CH3 CA	20C-20D	CH4 CA
162-163	CH2	1B8-1B9	CH3	20E-20F	CH4
164-165	CH2A	1BA-1BB	CH3 A	210-211	CH4 A
166-167	CH2B	1BC-1BD	CH3 B	212-213	CH4 B
168-169	CH2C	1BE-1BF	CH3 C	214-215	CH4 C
16A-16B	CH2	1C0-1C1	CH3	216-217	CH4
16C-16D	CH2A	1C2-1C3	CH3 A	218-219	CH4 A
16E-16F	CH2B	1C4-1C5	CH3 B	21A-21B	CH4 B
170-171	CH2C	1C6-1C7	CH3 C	21C-21D	CH4 C
172-173	CH2	1C8-1C9	CH3	21E-21F	CH4
174-175	CH2A	1CA-1CB	CH3 A	220-221	CH4 A
176-177	CH2B	1CC-1CD	CH3 B	222-223	CH4 B
178-179	CH2C	1CE-1CF	CH3 C	224-225	CH4 C
17A-17B	CH2	1D0-1D1	CH3	226-227	CH4
17C-17D	CH2A	1D2-1D3	CH3 A	228-229	CH4 A
17E-17F	CH2B	1D4-1D5	CH3 B	22A-22B	CH4 B
180-181	CH2C	1D6-1D7	CH3 C	22C-22D	CH4 C
182-183	CH2	1D8-1D9	CH3	22E-22F	CH4
184-185	CH2A	1DA-1DB	CH3 A	230-231	CH4 A
186-187	CH2B	1DC-1DD	CH3 B	232-233	CH4 B
188-189	CH2C	1DE-1DF	CH3 C	234-235	CH4 C
18A-18B	CH2	1E0-1E1	CH3	236-237	CH4
18C-18D	CH2A	1E2-1E3	CH3 A	238-239	CH4 A
18E-18F	CH2B	1E4-1E5	CH3 B	23A-23B	CH4 B
190-191	CH2C	1E6-1E7	CH3 C	23C-23D	CH4 C
192-193	CH2	1E8-1E9	CH3	23E-23F	CH4
194-195	CH2A	1EA-1EB	CH3 A	240-241	CH4 A
196-197	CH2B	1EC-1ED	CH3 B	242-243	CH4 B
198-199	CH2C	1EE-1EF	CH3 C	244-245	CH4 C
19A-19B	CH2	1F0-1F1	CH3	246-247	CH4
19C-19D	CH2A	1F2-1F3	CH3 A	248-249	CH4 A
19E-19F	CH2B	1F4-1F5	CH3 B	24A-24B	CH4 B
1A0-1A1	CH2C	1F6-1F7	CH3 C	24C-24D	CH4 C

1A2-1A3	CH2	1F8-1F9	CH3	24E-24F	CH4
1A4-1A5	CH2A	1FA-1FB	CH3 A	250-251	CH4 A
1A6-1A7	CH2B	1FC-1FD	CH3 B	252-253	CH4 B
1A8-1A9	CH2C	1FE-1FF	CH3 C	254-255	CH4 C
1AA-1AB	CH2	200-201	CH3	256-257	CH4

			/			
300-301	A	2	R		float	
302-303	B	2	R		float	
304-305	C	2	R		float	
306-307	CH1A	2	R		float	
308-309	CH1B	2	R		float	
30A-30B	CH1C	2	R		float	
30C-30D	CH2A	2	R		float	
30E-30F	CH2B	2	R		float	
310-311	CH2C	2	R		float	
312-313	CH3A	2	R		float	
314-315	CH3B	2	R		float	
316-317	CH3C	2	R		float	
318-319	CH4A	2	R		float	
31A-31B	CH4B	2	R		float	
31C-31D	CH4C	2	R		float	
31E-31F		2	R		float	
320-321	CH1	2	R		float	
322-323	CH2	2	R		float	
324-325	CH3	2	R		float	
326-327	CH4	2	R		float	
328-329	A	2	R		float	
32A-32B	B	2	R		float	
32C-32D	C	2	R		float	
32E-32F	AB	2	R		float	
330-331	BC	2	R		float	
332-333	CA	2	R		float	
334-335		2	R		float	
336	A	1	R		int16_t	0.01%
337	B	1	R		int16_t	0.01%
338	C	1	R		int16_t	0.01%
339	CH1A	1	R		int16_t	0.01%
33A	CH1B	1	R		int16_t	0.01%
33B	CH1C	1	R		int16_t	0.01%
33C	CH2A	1	R		int16_t	0.01%
33D	CH2B	1	R		int16_t	0.01%

33E	CH2C		1	R		int16_t	0.01%
33F	CH3A		1	R		int16_t	0.01%
340	CH3B		1	R		int16_t	0.01%
341	CH3C		1	R		int16_t	0.01%
342	CH4A		1	R		int16_t	0.01%
343	CH4B		1	R		int16_t	0.01%
344	CH4C		1	R		int16_t	0.01%
345	A	2	2	R		int16_t	0.01%
	B	2	2	R		int16_t	0.01%
	C	2	2	R		int16_t	0.01%
	.....		2	R		int16_t	0.01%
	A	31	2	R		int16_t	0.01%
	B	31	2	R		int16_t	0.01%
39E	C	31	2	R		int16_t	0.01%
39F	CH1A	2	2	R		int16_t	0.01%
	CH1B	2	2	R		int16_t	0.01%
	CH1C	2	2	R		int16_t	0.01%
	.....		2	R		int16_t	0.01%
	CH1A	31	2	R		int16_t	0.01%
	CH1B	31	2	R		int16_t	0.01%
3F8	CH1C	31	2	R		int16_t	0.01%
3F9	CH2A	2	2	R		int16_t	0.01%
	CH2B	2	2	R		int16_t	0.01%
	CH2C	2	2	R		int16_t	0.01%
	.....		2	R		int16_t	0.01%
	CH2A	31	2	R		int16_t	0.01%
	CH2B	31	2	R		int16_t	0.01%
452	CH2C	31	2	R		int16_t	0.01%
453	CH3A	2	2	R		int16_t	0.01%
	CH3B	2	2	R		int16_t	0.01%
	CH3C	2	2	R		int16_t	0.01%
	.....		2	R		int16_t	0.01%
	CH3A	31	2	R		int16_t	0.01%
	CH3B	31	2	R		int16_t	0.01%
4AC	CH3C	31	2	R		int16_t	0.01%
4AD	CH4A	2	2	R		int16_t	0.01%
	CH4B	2	2	R		int16_t	0.01%
	CH4C	2	2	R		int16_t	0.01%
	.....		2	R		int16_t	0.01%
	CH4A	31	2	R		int16_t	0.01%
	CH4B	31	2	R		int16_t	0.01%
506	CH4C	31	2	R		int16_t	0.01%

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				/			
17A0	1	1	1	R	0.1	int16_t	

17A1	1	2	1	R	0.1	int16_t	
17A2	1	3	1	R	0.1	int16_t	
17A3	1	4	1	R	0.1	int16_t	
17A4	1	5	1	R	0.1	int16_t	
17A5	1	6	1	R	0.1	int16_t	
17A6	1	7	1	R	0.1	int16_t	
17A7	1	8	1	R	0.1	int16_t	
17A8	1	9	1	R	0.1	int16_t	
17A9	1	10	1	R	0.1	int16_t	
17AA	1	11	1	R	0.1	int16_t	
17AB	1	12	1	R	0.1	int16_t	
17AC	1	1	1	R	1mA	uint16_t	
17AD	1	2	1	R	1mA	uint16_t	
17AE	1	3	1	R	1mA	uint16_t	
17AF	1	4	1	R	1mA	uint16_t	
17B0	1		1	R	0.1	int16_t	
17B1	1		1	R	0.10%	uint16_t	
17B2	2	1	1	R	0.1	int16_t	
17B3	2	2	1	R	0.1	int16_t	
17B4	2	3	1	R	0.1	int16_t	
17B5	2	4	1	R	0.1	int16_t	
17B6	2	5	1	R	0.1	int16_t	
17B7	2	6	1	R	0.1	int16_t	
17B8	2	7	1	R	0.1	int16_t	
17B9	2	8	1	R	0.1	int16_t	
17BA	2	9	1	R	0.1	int16_t	
17BB	2	10	1	R	0.1	int16_t	
17BC	2	11	1	R	0.1	int16_t	
17BD	2	12	1	R	0.1	int16_t	
17BE	2	1	1	R	1mA	uint16_t	
17BF	2	2	1	R	1mA	uint16_t	
17C0	2	3	1	R	1mA	uint16_t	
17C1	2	4	1	R	1mA	uint16_t	
17C2	2		1	R	0.1	int16_t	
17C3	2		1	R	0.10%	uint16_t	
17C4	1DI 1		1	R		uint16_t	
17C5	1DI 2		1	R		uint16_t	
17C6	1DI 3		1	R		uint16_t	
17C7	1DI 4		1	R		uint16_t	
17C8	1DI 5		1	R		uint16_t	
17C9	1DI 6		1	R		uint16_t	
17CA	1DI 7		1	R		uint16_t	
17CB	1DI 8		1	R		uint16_t	
17CC	1DI 9		1	R		uint16_t	
17CD	1DI 10		1	R		uint16_t	

17CE	1D11	1	R		uint16_t	
17CF	1D12	1	R		uint16_t	
17D0	1D01	1	R		uint16_t	
17D1	1D02	1	R		uint16_t	
17D2	1D03	1	R		uint16_t	
17D3	1D04	1	R		uint16_t	
17D4	2D11	1	R		uint16_t	
17D5	2D12	1	R		uint16_t	
17D6	2D13	1	R		uint16_t	
17D7	2D14	1	R		uint16_t	
17D8	2D15	1	R		uint16_t	
17D9	2D16	1	R		uint16_t	
17DA	2D17	1	R		uint16_t	
17DB	2D18	1	R		uint16_t	
17DC	2D19	1	R		uint16_t	
17DD	2D110	1	R		uint16_t	
17DE	2D111	1	R		uint16_t	
17DF	2D112	1	R		uint16_t	
17E0	2D01	1	R		uint16_t	
17E1	2D02	1	R		uint16_t	
17E2	2D03	1	R		uint16_t	
17E3	2D04	1	R		uint16_t	

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			/			
1600-1601	CH1A	2	R	A	float	
1602		1	R		uint16_t	
1603		1	R		uint16_t	
1604		1	R		uint16_t	
1605-1606	CH1B	2	R	A	float	
1607		1	R		uint16_t	
1608		1	R		uint16_t	
1609		1	R		uint16_t	
160A-160B	CH1C	2	R	A	float	
160C		1	R		uint16_t	
160D		1	R		uint16_t	
160E		1	R		uint16_t	
160F-1610	CH1A	2	R	W	float	
1611		1	R		uint16_t	
1612		1	R		uint16_t	
1613		1	R		uint16_t	
1614-1615	CH1B	2	R	W	float	
1616		1	R		uint16_t	
1617		1	R		uint16_t	
1618		1	R		uint16_t	
1619-161A	CH1C	2	R	W	float	

161B		1	R		uint16_t		
161C		1	R		uint16_t		
161D		1	R		uint16_t		
161E-161F	CH1	2	R	W	float		
1620		1	R		uint16_t		
1621		1	R		uint16_t		
1622		1	R		uint16_t		
1623-1624	CH2A	2	R	A	float		
1625		1	R		uint16_t		
1626		1	R		uint16_t		
1627		1	R		uint16_t		
1628-1629	CH2B	2	R	A	float		
162A		1	R		uint16_t		
162B		1	R		uint16_t		
162C		1	R		uint16_t		
162D-162E	CH2C	2	R	A	float		
162F		1	R		uint16_t		
1630		1	R		uint16_t		
1631		1	R		uint16_t		
1632-1633	CH2A	2	R	W	float		
1634		1	R		uint16_t		
1635		1	R		uint16_t		
1636		1	R		uint16_t		
1637-1638	CH2B	2	R	W	float		
1639		1	R		uint16_t		
163A		1	R		uint16_t		
163B		1	R		uint16_t		
163C-163D	CH2C	2	R	W	float		
163E		1	R		uint16_t		
163F		1	R		uint16_t		
1640		1	R		uint16_t		
1641-1642	CH2	2	R	W	float		
1643		1	R		uint16_t		
1644		1	R		uint16_t		
1645		1	R		uint16_t		
1646-1647	CH3A	2	R	A	float		
1648		1	R		uint16_t		
1649		1	R		uint16_t		
164A		1	R		uint16_t		
164B-164C	CH3B	2	R	A	float		
164D		1	R		uint16_t		
164E		1	R		uint16_t		
164F		1	R		uint16_t		
1650-1651	CH3C	2	R	A	float		
1652		1	R		uint16_t		

1653		1	R		uint16_t		
1654		1	R		uint16_t		
1655-1656	CH3A	2	R	W	float		
1657		1	R		uint16_t		
1658		1	R		uint16_t		
1659		1	R		uint16_t		
165A-165B	CH3B	2	R	W	float		
165C		1	R		uint16_t		
165D		1	R		uint16_t		
165E		1	R		uint16_t		
165F-1660	CH3C	2	R	W	float		
1661		1	R		uint16_t		
1662		1	R		uint16_t		
1663		1	R		uint16_t		
1664-1665	CH3	2	R	W	float		
1666		1	R		uint16_t		
1667		1	R		uint16_t		
1668		1	R		uint16_t		
1669-166A	CH4A	2	R	A	float		
166B		1	R		uint16_t		
166C		1	R		uint16_t		
166D		1	R		uint16_t		
166E-166F	CH4B	2	R	A	float		
1670		1	R		uint16_t		
1671		1	R		uint16_t		
1672		1	R		uint16_t		
1673-1674	CH4C	2	R	A	float		
1675		1	R		uint16_t		
1676		1	R		uint16_t		
1677		1	R		uint16_t		
1678-1679	CH4A	2	R	W	float		
167A		1	R		uint16_t		
167B		1	R		uint16_t		
167C		1	R		uint16_t		
167D-167E	CH4B	2	R	W	float		
167F		1	R		uint16_t		
1680		1	R		uint16_t		
1681		1	R		uint16_t		
1682-1683	CH4C	2	R	W	float		
1684		1	R		uint16_t		
1685		1	R		uint16_t		
1686		1	R		uint16_t		
1687-1688	CH4	2	R	W	float		
1689		1	R		uint16_t		
168A		1	R		uint16_t		

168B		1	R		uint16_t		
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			/				
168C-168D	CH1A	2	R	A	float		
168E		1	R		uint16_t		
168F		1	R		uint16_t		
1690		1	R		uint16_t		
1691-1692	CH1B	2	R	A	float		
1693		1	R		uint16_t		
1694		1	R		uint16_t		
1695		1	R		uint16_t		
1696-1697	CH1C	2	R	A	float		
1698		1	R		uint16_t		
1699		1	R		uint16_t		
169A		1	R		uint16_t		
169B-169C	CH1A	2	R	W	float		
169D		1	R		uint16_t		
169E		1	R		uint16_t		
169F		1	R		uint16_t		
16A0-16A1	CH1B	2	R	W	float		
16A2		1	R		uint16_t		
16A3		1	R		uint16_t		
16A4		1	R		uint16_t		
16A5-16A6	CH1C	2	R	W	float		
16A7		1	R		uint16_t		
16A8		1	R		uint16_t		
16A9		1	R		uint16_t		
16AA-16AB	CH1	2	R	W	float		
16AC		1	R		uint16_t		
16AD		1	R		uint16_t		
16AE		1	R		uint16_t		
16AF-16B0	CH2A	2	R	A	float		
16B1		1	R		uint16_t		
16B2		1	R		uint16_t		
16B3		1	R		uint16_t		
16B4-16B5	CH2B	2	R	A	float		
16B6		1	R		uint16_t		
16B7		1	R		uint16_t		
16B8		1	R		uint16_t		
16B9-16BA	CH2C	2	R	A	float		
16BB		1	R		uint16_t		
16BC		1	R		uint16_t		
16BD		1	R		uint16_t		
16BE-16BF	CH2A	2	R	W	float		
16C0		1	R		uint16_t		

16C1		1	R		uint16_t		
16C2		1	R		uint16_t		
16C3-16C4	CH2B	2	R	W	float		
16C5		1	R		uint16_t		
16C6		1	R		uint16_t		
16C7		1	R		uint16_t		
16C8-16C9	CH2C	2	R	W	float		
16CA		1	R		uint16_t		
16CB		1	R		uint16_t		
16CC		1	R		uint16_t		
16CD-16CE	CH2	2	R	W	float		
16CF		1	R		uint16_t		
16D0		1	R		uint16_t		
16D1		1	R		uint16_t		
16D2-16D3	CH3A	2	R	A	float		
16D4		1	R		uint16_t		
16D5		1	R		uint16_t		
16D6		1	R		uint16_t		
16D7-16D8	CH3B	2	R	A	float		
16D9		1	R		uint16_t		
16DA		1	R		uint16_t		
16DB		1	R		uint16_t		
16DC-16DD	CH3C	2	R	A	float		
16DE		1	R		uint16_t		
16DF		1	R		uint16_t		
16E0		1	R		uint16_t		
16E1-16E2	CH3A	2	R	W	float		
16E3		1	R		uint16_t		
16E4		1	R		uint16_t		
16E5		1	R		uint16_t		
16E6-16E7	CH3B	2	R	W	float		
16E8		1	R		uint16_t		
16E9		1	R		uint16_t		
16EA		1	R		uint16_t		
16EB-16EC	CH3C	2	R	W	float		
16ED		1	R		uint16_t		
16EE		1	R		uint16_t		
16EF		1	R		uint16_t		
16F0-16F1	CH3	2	R	W	float		
16F2		1	R		uint16_t		
16F3		1	R		uint16_t		
16F4		1	R		uint16_t		
16F5-16F6	CH4A	2	R	A	float		
16F7		1	R		uint16_t		
16F8		1	R		uint16_t		

16F9		1	R		uint16_t		
16FA-16FB	CH4B	2	R	A	float		
16FC		1	R		uint16_t		
16FD		1	R		uint16_t		
16FE		1	R		uint16_t		
16FF-1700	CH4C	2	R	A	float		
1701		1	R		uint16_t		
1702		1	R		uint16_t		
1703		1	R		uint16_t		
1704-1705	CH4A	2	R	W	float		
1706		1	R		uint16_t		
1707		1	R		uint16_t		
1708		1	R		uint16_t		
1709-170A	CH4B	2	R	W	float		
170B		1	R		uint16_t		
170C		1	R		uint16_t		
170D		1	R		uint16_t		
170E-170F	CH4C	2	R	W	float		
1710		1	R		uint16_t		
1711		1	R		uint16_t		
1712		1	R		uint16_t		
1713-1714	CH4	2	R	W	float		
1715		1	R		uint16_t		
1716		1	R		uint16_t		
1717		1	R		uint16_t		

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	1718-1719	CH1A	2	R	A	float	
	171A-171B	CH1B	2	R	A	float	
	171C-171D	CH1C	2	R	A	float	
	171E-171F	CH1A	2	R	W	float	
	1720-1721	CH1B	2	R	W	float	
	1722-1723	CH1C	2	R	W	float	
	1724-1725	CH1	2	R	W	float	
	1726-1727	CH2A	2	R	A	float	
	1728-1729	CH2B	2	R	A	float	
	172A-172B	CH2C	2	R	A	float	
	172C-172D	CH2A	2	R	W	float	
	172E-172F	CH2B	2	R	W	float	
	1730-1731	CH2C	2	R	W	float	
	1732-1733	CH2	2	R	W	float	
	1734-1735	CH3A	2	R	A	float	
	1736-1737	CH3B	2	R	A	float	

1738-1739	CH3C	2	R	A	float		
173A-173B	CH3A	2	R	W	float		
173C-173D	CH3B	2	R	W	float		
173E-173F	CH3C	2	R	W	float		
1740-1741	CH3	2	R	W	float		
1742-1743	CH4A	2	R	A	float		
1744-1745	CH4B	2	R	A	float		
1746-1747	CH4C	2	R	A	float		
1748-1749	CH4A	2	R	W	float		
174A-174B	CH4B	2	R	W	float		
174C-174D	CH4C	2	R	W	float		
174E-174F	CH4	2	R	W	float		

1-4 ( )

			/				
600-601	CH1	2	R	kWh	Float		
602-603	CH1 [ ]	2	R	kWh	Float		
604-605	CH1 [ ]	2	R	kWh	Float		
606-607	CH1 [ ]	2	R	kWh	Float		
608-609	CH1 [ ]	2	R	kWh	Float		
60A-60B	CH2	2	R	kWh	Float		
60C-60D	CH2 [ ]	2	R	kWh	Float		
60E-60F	CH2 [ ]	2	R	kWh	Float		
610-611	CH2 [ ]	2	R	kWh	Float		
612-613	CH2 [ ]	2	R	kWh	Float		
614-615	CH3	2	R	kWh	Float		
616-617	CH3 [ ]	2	R	kWh	Float		
618-619	CH3 [ ]	2	R	kWh	Float		
61A-61B	CH3 [ ]	2	R	kWh	Float		
61C-61D	CH3 [ ]	2	R	kWh	Float		
61E-61F	CH4	2	R	kWh	Float		
620-621	CH4 [ ]	2	R	kWh	Float		
622-623	CH4 [ ]	2	R	kWh	Float		
624-625	CH4 [ ]	2	R	kWh	Float		
626-627	CH4 [ ]	2	R	kWh	Float		

1-12 1-4

628-629	1 CH1	650-651	2 CH1
62A-62B	1 CH1 [ ]	652-653	2 CH1 [ ]
62C-62D	1 CH1 [ ]	654-655	2 CH1 [ ]
62E-62F	1 CH1 [ ]	656-657	2 CH1 [ ]
630-631	1 CH1 [ ]	658-659	2 CH1 [ ]
632-633	1 CH2	65A-65B	2 CH2

634-635	1	CH2	[ ]	65C-65D	2	CH2	[ ]
636-637	1	CH2	[ ]	65E-65F	2	CH2	[ ]
638-639	1	CH2	[ ]	660-661	2	CH2	[ ]
63A-63B	1	CH2	[ ]	662-663	2	CH2	[ ]
63C-63D	1	CH3		664-665	2	CH3	
63E-63F	1	CH3	[ ]	666-667	2	CH3	[ ]
640-641	1	CH3	[ ]	668-669	2	CH3	[ ]
642-643	1	CH3	[ ]	66A-66B	2	CH3	[ ]
644-645	1	CH3	[ ]	66C-66D	2	CH3	[ ]
646-647	1	CH4		66E-66F	2	CH4	
648-649	1	CH4	[ ]	670-671	2	CH4	[ ]
64A-64B	1	CH4	[ ]	672-673	2	CH4	[ ]
64C-64D	1	CH4	[ ]	674-675	2	CH4	[ ]
64E-64F	1	CH4	[ ]	676-677	2	CH4	[ ]
678-679	3	CH1		6A0-6A1	4	CH1	
67A-67B	3	CH1	[ ]	6A2-6A3	4	CH1	[ ]
67C-67D	3	CH1	[ ]	6A4-6A5	4	CH1	[ ]
67E-67F	3	CH1	[ ]	6A6-6A7	4	CH1	[ ]
680-681	3	CH1	[ ]	6A8-6A9	4	CH1	[ ]
682-683	3	CH2		6AA-6AB	4	CH2	
684-685	3	CH2	[ ]	6AC-6AD	4	CH2	[ ]
686-687	3	CH2	[ ]	6AE-6AF	4	CH2	[ ]
688-689	3	CH2	[ ]	6B0-6B1	4	CH2	[ ]
68A-68B	3	CH2	[ ]	6B2-6B3	4	CH2	[ ]
68C-68D	3	CH3		6B4-6B5	4	CH3	
68E-68F	3	CH3	[ ]	6B6-6B7	4	CH3	[ ]
690-691	3	CH3	[ ]	6B8-6B9	4	CH3	[ ]
692-693	3	CH3	[ ]	6BA-6BB	4	CH3	[ ]
694-695	3	CH3	[ ]	6BC-6BD	4	CH3	[ ]
696-697	3	CH4		6BE-6BF	4	CH4	
698-699	3	CH4	[ ]	6C0-6C1	4	CH4	[ ]
69A-69B	3	CH4	[ ]	6C2-6C3	4	CH4	[ ]
69C-69D	3	CH4	[ ]	6C4-6C5	4	CH4	[ ]
69E-69F	3	CH4	[ ]	6C6-6C7	4	CH4	[ ]
6C8-6C9	5	CH1		6F0-6F1	6	CH1	
6CA-6CB	5	CH1	[ ]	6F2-6F3	6	CH1	[ ]
6CC-6CD	5	CH1	[ ]	6F4-6F5	6	CH1	[ ]
6CE-6CF	5	CH1	[ ]	6F6-6F7	6	CH1	[ ]
6D0-6D1	5	CH1	[ ]	6F8-6F9	6	CH1	[ ]
6D2-6D3	5	CH2		6FA-6FB	6	CH2	
6D4-6D5	5	CH2	[ ]	6FC-6FD	6	CH2	[ ]
6D6-6D7	5	CH2	[ ]	6FE-6FF	6	CH2	[ ]
6D8-6D9	5	CH2	[ ]	700-701	6	CH2	[ ]
6DA-6DB	5	CH2	[ ]	702-703	6	CH2	[ ]
6DC-6DD	5	CH3		704-705	6	CH3	

6DE-6DF	5	CH3	[ ]	706-707	6	CH3	[ ]
6E0-6E1	5	CH3	[ ]	708-709	6	CH3	[ ]
6E2-6E3	5	CH3	[ ]	70A-70B	6	CH3	[ ]
6E4-6E5	5	CH3	[ ]	70C-70D	6	CH3	[ ]
6E6-6E7	5	CH4		70E-70F	6	CH4	
6E8-6E9	5	CH4	[ ]	710-711	6	CH4	[ ]
6EA-6EB	5	CH4	[ ]	712-713	6	CH4	[ ]
6EC-6ED	5	CH4	[ ]	714-715	6	CH4	[ ]
6EE-6EF	5	CH4	[ ]	716-717	6	CH4	[ ]
718-719	7	CH1		740-741	8	CH1	
71A-71B	7	CH1	[ ]	742-743	8	CH1	[ ]
71C-71D	7	CH1	[ ]	744-745	8	CH1	[ ]
71E-71F	7	CH1	[ ]	746-747	8	CH1	[ ]
720-721	7	CH1	[ ]	748-749	8	CH1	[ ]
722-723	7	CH2		74A-74B	8	CH2	
724-725	7	CH2	[ ]	74C-74D	8	CH2	[ ]
726-727	7	CH2	[ ]	74E-74F	8	CH2	[ ]
728-729	7	CH2	[ ]	750-751	8	CH2	[ ]
72A-72B	7	CH2	[ ]	752-753	8	CH2	[ ]
72C-72D	7	CH3		754-755	8	CH3	
72E-72F	7	CH3	[ ]	756-757	8	CH3	[ ]
730-731	7	CH3	[ ]	758-759	8	CH3	[ ]
732-733	7	CH3	[ ]	75A-75B	8	CH3	[ ]
734-735	7	CH3	[ ]	75C-75D	8	CH3	[ ]
736-737	7	CH4		75E-75F	8	CH4	
738-739	7	CH4	[ ]	760-761	8	CH4	[ ]
73A-73B	7	CH4	[ ]	762-763	8	CH4	[ ]
73C-73D	7	CH4	[ ]	764-765	8	CH4	[ ]
73E-73F	7	CH4	[ ]	766-767	8	CH4	[ ]
768-769	9	CH1		790-791	10	CH1	
76A-76B	9	CH1	[ ]	792-793	10	CH1	[ ]
76C-76D	9	CH1	[ ]	794-795	10	CH1	[ ]
76E-76F	9	CH1	[ ]	796-797	10	CH1	[ ]
770-771	9	CH1	[ ]	798-799	10	CH1	[ ]
772-773	9	CH2		79A-79B	10	CH2	
774-775	9	CH2	[ ]	79C-79D	10	CH2	[ ]
776-777	9	CH2	[ ]	79E-79F	10	CH2	[ ]
778-779	9	CH2	[ ]	7A0-7A1	10	CH2	[ ]
77A-77B	9	CH2	[ ]	7A2-7A3	10	CH2	[ ]
77C-77D	9	CH3		7A4-7A5	10	CH3	
77E-77F	9	CH3	[ ]	7A6-7A7	10	CH3	[ ]
780-781	9	CH3	[ ]	7A8-7A9	10	CH3	[ ]
782-783	9	CH3	[ ]	7AA-7AB	10	CH3	[ ]
784-785	9	CH3	[ ]	7AC-7AD	10	CH3	[ ]
786-787	9	CH4		7AE-7AF	10	CH4	

788-789	9	CH4	[ ]	7B0-7B1	10	CH4	[ ]
78A-78B	9	CH4	[ ]	7B2-7B3	10	CH4	[ ]
78C-78D	9	CH4	[ ]	7B4-7B5	10	CH4	[ ]
78E-78F	9	CH4	[ ]	7B6-7B7	10	CH4	[ ]
7B8-7B9	11	CH1		7E0-7E1	12	CH1	
7BA-7BB	11	CH1	[ ]	7E2-7E3	12	CH1	[ ]
7BC-7BD	11	CH1	[ ]	7E4-7E5	12	CH1	[ ]
7BE-7BF	11	CH1	[ ]	7E6-7E7	12	CH1	[ ]
7C0-7C1	11	CH1	[ ]	7E8-7E9	12	CH1	[ ]
7C2-7C3	11	CH2		7EA-7EB	12	CH2	
7C4-7C5	11	CH2	[ ]	7EC-7ED	12	CH2	[ ]
7C6-7C7	11	CH2	[ ]	7EE-7EF	12	CH2	[ ]
7C8-7C9	11	CH2	[ ]	7F0-7F1	12	CH2	[ ]
7CA-7CB	11	CH2	[ ]	7F2-7F3	12	CH2	[ ]
7CC-7CD	11	CH3		7F4-7F5	12	CH3	
7CE-7CF	11	CH3	[ ]	7F6-7F7	12	CH3	[ ]
7D0-7D1	11	CH3	[ ]	7F8-7F9	12	CH3	[ ]
7D2-7D3	11	CH3	[ ]	7FA-7FB	12	CH3	[ ]
7D4-7D5	11	CH3	[ ]	7FC-7FD	12	CH3	[ ]
7D6-7D7	11	CH4		7FE-7FF	12	CH4	
7D8-7D9	11	CH4	[ ]	800-801	12	CH4	[ ]
7DA-7DB	11	CH4	[ ]	802-803	12	CH4	[ ]
7DC-7DD	11	CH4	[ ]	804-805	12	CH4	[ ]
7DE-7DF	11	CH4	[ ]	806-807	12	CH4	[ ]

### CH1

			/				
900-901	A	2	R	V	float		
902	A	1	R		uint16_t		
903		1	R		uint16_t		
904		1	R		uint16_t		
905-909	B	5	R				
90A-90E	C	5	R				
90F-913	AB	5	R				
914-918	BC	5	R				
919-91D	CA	5	R				
91E-922	A	5	R				
923-927	B	5	R				
928-92C	C	5	R				
92D-931	AB	5	R				
932-936	BC	5	R				
937-93B	CA	5	R				
9B4-9B5	CH1A	2	R	A	float		
9B6	CH1A	1	R		uint16_t		
9B7		1	R		uint16_t		
9B8		1	R		uint16_t		

9B9-9BD	CH1B	5	R				
9BE-9C2	CH1C	5	R				
9C3-9C7	CH1	5	R				
9C8-9CC	CH1A	5	R				
9CD-9D1	CH1B	5	R				
9D2-9D6	CH1C	5	R				
9D7-9DB	CH1	5	R				
9DC-9E0	CH1A	5	R				
9E1-9E5	CH1B	5	R				
9E6-9EA	CH1C	5	R				
9EB-9EF	CH1	5	R				
9F0-9F4	CH1A	5	R				
9F5-9F9	CH1B	5	R				
9FA-9FE	CH1C	5	R				
9FF-A03	CH1	5	R				
A04-A08	CH1A	5	R				
A09-A0D	CH1B	5	R				
A0E-A12	CH1C	5	R				
A13-A17	CH1	5	R				
A18-A1C	CH1	5	R				
A86-A87	CH1A	2	R	A	float		
A88	CH1A	1	R		uint16_t		
A89		1	R		uint16_t		
A8A		1	R		uint16_t		
A8B-A8F	CH1B	5	R				
A90-A94	CH1C	5	R				
A95-A99	CH1	5	R				
A9A-A9E	CH1A	5	R				
A9F-AA3	CH1B	5	R				
AA4-AA8	CH1C	5	R				
AA9-AAD	CH1	5	R				
AAE-AB2	CH1A	5	R				
AB3-AB7	CH1B	5	R				
AB8-ABC	CH1C	5	R				
ABD-AC1	CH1	5	R				
AC2-AC6	CH1A	5	R				
AC7-ACB	CH1B	5	R				
ACC-ADO	CH1C	5	R				
AD1-AD5	CH1	5	R				
AD6-ADA	CH1A	5	R				
ADB-ADF	CH1B	5	R				
AEO-AE4	CH1C	5	R				
AE5-AE9	CH1	5	R				
AEA-AEE	CH1	5	R				
95A-95B	A	2	R	V	float		

95C	A	1	R		uint16_t		
95D		1	R		uint16_t		
95E		1	R		uint16_t		
95F-963	B	5	R				
964-968	C	5	R				
969-96D	AB	5	R				
96E-972	BC	5	R				
973-977	CA	5	R				
978-97C	A	5	R				
97D-981	B	5	R				
982-986	C	5	R				
987-98B	AB	5	R				
98C-990	BC	5	R				
991-995	CA	5	R				
A1D-A1E	CH1A	2	R	A	float		
A1F	CH1A	1	R		uint16_t		
A20		1	R		uint16_t		
A21		1	R		uint16_t		
A22-A26	CH1B	5	R				
A27-A2B	CH1C	5	R				
A2C-A30	CH1	5	R				
A31-A35	CH1A	5	R				
A36-A3A	CH1B	5	R				
A3B-A3F	CH1C	5	R				
A40-A44	CH1	5	R				
A45-A49	CH1A	5	R				
A4A-A4E	CH1B	5	R				
A4F-A53	CH1C	5	R				
A54-A58	CH1	5	R				
A59-A5D	CH1A	5	R				
A5E-A62	CH1B	5	R				
A63-A67	CH1C	5	R				
A68-A6C	CH1	5	R				
A6D-A71	CH1A	5	R				
A72-A76	CH1B	5	R				
A77-A7B	CH1C	5	R				
A7C-A80	CH1	5	R				
A81-A85	CH1	5	R				
AEF-AF0	CH1A	2	R	A	float		
AF1	CH1A	1	R		uint16_t		
AF2		1	R		uint16_t		
AF3		1	R		uint16_t		
AF4-AF8	CH1B	5	R				
AF9-AFD	CH1C	5	R				
AFE-B02	CH1	5	R				

B03-B07	CH1A	5	R				
B08-B0C	CH1B	5	R				
B0D-B11	CH1C	5	R				
B12-B16	CH1	5	R				
B17-B1B	CH1A	5	R				
B1C-B20	CH1B	5	R				
B21-B25	CH1C	5	R				
B26-B2A	CH1	5	R				
B2B-B2F	CH1A	5	R				
B30-B34	CH1B	5	R				
B35-B39	CH1C	5	R				
B3A-B3E	CH1	5	R				
B3F-B43	CH1A	5	R				
B44-B48	CH1B	5	R				
B49-B4D	CH1C	5	R				
B4E-B52	CH1	5	R				
B53-B57	CH1	5	R				

**CH2-CH3**

**CH1**

D00-D01	CH2A	1000-1001	CH3A				
D02	CH2 A	1002	CH3A				
D03		1003					
D04		1004					
D05-D09	CH2B	1005-1009	CH3B				
D0A-D0E	CH2C	100A-100E	CH3C				
D0F-D13	CH2	100F-1013	CH3				
D14-D18	CH2A	1014-1018	CH3A				
D19-D1D	CH2B	1019-101D	CH3B				
D1E-D22	CH2C	101E-1022	CH3C				
D23-D27	CH2	1023-1027	CH3				
D28-D2C	CH2A	1028-102C	CH3A				
D2D-D31	CH2B	102D-1031	CH3B				
D32-D36	CH2C	1032-1036	CH3C				
D37-D3B	CH2	1037-103B	CH3				
D3C-D40	CH2A	103C-1040	CH3A				
D41-D45	CH2B	1041-1045	CH3B				
D46-D4A	CH2C	1046-104A	CH3C				
D4B-D4F	CH2	104B-104F	CH3				
D50-D54	CH2A	1050-1054	CH3A				
D55-D59	CH2B	1055-1059	CH3B				
D5A-D5E	CH2C	105A-105E	CH3C				
D5F-D63	CH2	105F-1063	CH3				
D64-D68	CH2	1064-1068	CH3				
DD2-DD3	CH2A	10D2-10D3	CH3A				
DD4	CH2 A	10D4	CH3A				

DD5		10D5	
DD6		10D6	
DD7-DDB	CH2B	10D7-10DB	CH3B
DDC-DE0	CH2C	10DC-10E0	CH3C
DE1-DE5	CH2	10E1-10E5	CH3
DE6-DEA	CH2A	10E6-10EA	CH3A
DEB-E21	CH2B	10EB-113C	CH3B
DF0-E26	CH2C	10F0-113D	CH3C
DF5-E2B	CH2	10F5-113E	CH3
DFA-E30	CH2A	10FA-113F	CH3A
DFF-E35	CH2B	10FF-1144	CH3B
E04-E3A	CH2C	1104-1149	CH3C
E09	CH2	1109-114E	CH3
EOE	CH2A	110E-1153	CH3A
E13	CH2B	1113-1158	CH3B
E18	CH2C	1118-115D	CH3C
E1D-E21	CH2	111D-1121	CH3
E22-E26	CH2A	1122-1126	CH3A
E27-E2B	CH2B	1127-112B	CH3B
E2C-E30	CH2C	112C-1130	CH3C
E31-E35	CH2	1131-1135	CH3
E36-E3A	CH2	1136-113A	CH3
D69-D6A	CH2A	1069-106A	CH3A
D6B	CH2 A	106B	CH3A
D6C		106C	
D6D		106D	
D6E-D72	CH2B	106E-1072	CH3B
D73-D77	CH2C	1073-1077	CH3C
D78-D7C	CH2	1078-107C	CH3
D7D-D81	CH2A	107D-1081	CH3A
D82-D86	CH2B	1082-1086	CH3B
D87-D8B	CH2C	1087-108B	CH3C
D8C-D90	CH2	108C-1090	CH3
D91-D95	CH2A	1091-1095	CH3A
D96-D9A	CH2B	1096-109A	CH3B
D9B-D9F	CH2C	109B-109F	CH3C
DA0-DA4	CH2	10A0-10A4	CH3
DA5-DA9	CH2A	10A5-10A9	CH3A
DAA-DAE	CH2B	10AA-10AE	CH3B
DAF-DB3	CH2C	10AF-10B3	CH3C
DB4-DB8	CH2	10B4-10B8	CH3
DB9-DBD	CH2A	10B9-10BD	CH3A
DBE-DC2	CH2B	10BE-10C2	CH3B
DC3-DC7	CH2C	10C3-10C7	CH3C
DC8-DCC	CH2	10C8-10CC	CH3

DCD-DD1	CH2	10CD-10D1	CH3
E3B-E3C	CH2A	113B-113C	CH3A
E3D	CH2 A	113D	CH3A
E3E		113E	
E3F		113F	
E40-E44	CH2B	1140-1144	CH3B
E45-E49	CH2C	1145-1149	CH3C
E4A-E4E	CH2	114A-114E	CH3
E4F-E53	CH2A	114F-1153	CH3A
E54-E58	CH2B	1154-1158	CH3B
E59-E5D	CH2C	1159-115D	CH3C
E5E-E62	CH2	115E-1162	CH3
E63-E67	CH2A	1163-1167	CH3A
E68-E6C	CH2B	1168-116C	CH3B
E6D-E71	CH2C	116D-1171	CH3C
E72-E76	CH2	1172-1176	CH3
E77-E7B	CH2A	1177-117B	CH3A
E7C-E80	CH2B	117C-1180	CH3B
E81-E85	CH2C	1181-1185	CH3C
E86-E8A	CH2	1186-118A	CH3
E8B-E8F	CH2A	118B-118F	CH3A
E90-E94	CH2B	1190-1194	CH3B
E95-E99	CH2C	1195-1199	CH3C
E9A-E9E	CH2	119A-119E	CH3
E9F-EA3	CH2	119F-11A3	CH3
1300-1301	CH4A	13D2-13D3	CH4A
1302	CH4A	13D4	CH4A
1303		13D5	
1304		13D6	
1305-1309	CH4B	13D7-13DB	CH4B
130A-130E	CH4C	13DC-13E0	CH4C
130F-1313	CH4	13E1-13E5	CH4
1314-1318	CH4A	13E6-13EA	CH4A
1319-131D	CH4B	13EB-1462	CH4B
131E-1322	CH4C	13F0-1467	CH4C
1323-1327	CH4	13F5-146C	CH4
1328-132C	CH4A	13FA-1471	CH4A
132D-1331	CH4B	13FF-1476	CH4B
1332-1336	CH4C	1404-147B	CH4C
1337-133B	CH4	1409-1480	CH4
133C-1340	CH4A	140E-1485	CH4A
1341-1345	CH4B	1413-148A	CH4B
1346-134A	CH4C	1418-148F	CH4C
134B-134F	CH4	141D-1421	CH4
1350-1354	CH4A	1422-1426	CH4A

1355-1359	CH4B	1427-142B	CH4B
135A-135E	CH4C	142C-1430	CH4C
135F-1363	CH4	1431-1435	CH4
1364-1368	CH4	1436-143A	CH4
1369-136A	CH4A	143B-143C	CH4A
136B	CH4A	143D	CH4A
136C		143E	
136D		143F	
136E-1372	CH4B	1440-1444	CH4B
1373-1377	CH4C	1445-1449	CH4C
1378-137C	CH4	144A-144E	CH4
137D-1381	CH4A	144F-1453	CH4A
1382-1386	CH4B	1454-1458	CH4B
1387-138B	CH4C	1459-145D	CH4C
138C-1390	CH4	145E-1462	CH4
1391-1395	CH4A	1463-1467	CH4A
1396-139A	CH4B	1468-146C	CH4B
139B-139F	CH4C	146D-1471	CH4C
13A0-13A4	CH4	1472-1476	CH4
13A5-13A9	CH4A	1477-147B	CH4A
13AA-13AE	CH4B	147C-1480	CH4B
13AF-13B3	CH4C	1481-1485	CH4C
13B4-13B8	CH4	1486-148A	CH4
13B9-13BD	CH4A	148B-148F	CH4A
13BE-13C2	CH4B	1490-1494	CH4B
13C3-13C7	CH4C	1495-1499	CH4C
13C8-13CC	CH4	149A-149E	CH4
13CD-13D1	CH4	149F-14A3	CH4

## 6.2

adr	03	20	00	00	44	crc1	crc2
adr 03 20 00 00 44 crc1 crc2							
adr 03 88 xx xx...crc1 crc2							

Byte[0]	adr		Byte[67-70]	CH2	float
Byte[1]	0x03		Byte[71-74]	CH2	float
Byte[2]	0x88		Byte[75-78]	CH3	float
Byte[3-4]	/	uint16_t	Byte[79-82]	CH3	float
Byte[5-6]	/	uint16_t	Byte[83-86]	CH3	float
Byte[7-8]	/	uint16_t	Byte[87-90]	CH3	float
Byte[9-10]		uint16_t	Byte[91-94]	CH3	float

Byte[11-14]	CH1	float	Byte[95-98]	CH3	float
Byte[15-18]	CH1	float	Byte[99-102]	CH3	float
Byte[19-22]	CH1	float	Byte[103-106]	CH3	float
Byte[23-26]	CH1	float	Byte[107-110]	CH4	float
Byte[27-30]	CH1	float	Byte[111-114]	CH4	float
Byte[31-34]	CH1	float	Byte[115-118]	CH4	float
Byte[35-38]	CH1	float	Byte[119-122]	CH4	float
Byte[39-42]	CH1	float	Byte[123-126]	CH4	float
Byte[43-46]	CH2	float	Byte[127-130]	CH4	float
Byte[47-50]	CH2	float	Byte[131-134]	CH4	float
Byte[51-54]	CH2	float	Byte[135-138]	CH4	float
Byte[55-58]	CH2	float	Byte[139]	crc1	uint8_t
Byte[59-62]	CH2	float	Byte[140]	crc2	uint8_t
Byte[63-66]	CH2	float			

2000	1	2007	8	200F	16	2017	24
2001	2	2008	9	2010	17	2018	25
2002	3	2009	10	2011	18	2019	26
2003	4	200A	11	2012	19	201A	27
2004	5	200B	12	2013	20	201B	28
2005	6	200C	13	2014	21	201C	29
2006	7	200D	14	2015	22	201D	30
2007	8	200E	15	2016	23	201E	31

### 6.3

adr	03	21	00	00	08	crc1	crc2
01 03 21 00 00 08 crc1 crc2							
01 03 10 FF 00 80 81 00 00 13 08 1D 10 12 22 00 00 00 00 25 92							

Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo
0x00: D00		bit 7	0	D0											
0x01: D01		1	DI												
0xFF:		bit 0	1			0x00+num									
		0				0x80+num									

0x2100	1	0x2128	41	0x2150	81	0x2178	121	0x21A0	161
0x2101	2	0x2129	42	0x2151	82	0x2179	122	0x21A1	162

0x2102	3	0x212A	43	0x2152	83	0x217A	123	0x21A2	163
0x2103	4	0x212B	44	0x2153	84	0x217B	124	0x21A3	164
0x2104	5	0x212C	45	0x2154	85	0x217C	125	0x21A4	165
0x2105	6	0x212D	46	0x2155	86	0x217D	126	0x21A5	166
0x2106	7	0x212E	47	0x2156	87	0x217E	127	0x21A6	167
0x2107	8	0x212F	48	0x2157	88	0x217F	128	0x21A7	168
0x2108	9	0x2130	49	0x2158	89	0x2180	129	0x21A8	169
0x2109	10	0x2131	50	0x2159	90	0x2181	130	0x21A9	170
0x210A	11	0x2132	51	0x215A	91	0x2182	131	0x21AA	171
0x210B	12	0x2133	52	0x215B	92	0x2183	132	0x21AB	172
0x210C	13	0x2134	53	0x215C	93	0x2184	133	0x21AC	173
0x210D	14	0x2135	54	0x215D	94	0x2185	134	0x21AD	174
0x210E	15	0x2136	55	0x215E	95	0x2186	135	0x21AE	175
0x210F	16	0x2137	56	0x215F	96	0x2187	136	0x21AF	176
0x2110	17	0x2138	57	0x2160	97	0x2188	137	0x21B0	177
0x2111	18	0x2139	58	0x2161	98	0x2189	138	0x21B1	178
0x2112	19	0x213A	59	0x2162	99	0x218A	139	0x21B2	179
0x2113	20	0x213B	60	0x2163	100	0x218B	140	0x21B3	180
0x2114	21	0x213C	61	0x2164	101	0x218C	141	0x21B4	181
0x2115	22	0x213D	62	0x2165	102	0x218D	142	0x21B5	182
0x2116	23	0x213E	63	0x2166	103	0x218E	143	0x21B6	183
0x2117	24	0x213F	64	0x2167	104	0x218F	144	0x21B7	184
0x2118	25	0x2140	65	0x2168	105	0x2190	145	0x21B8	185
0x2119	26	0x2141	66	0x2169	106	0x2191	146	0x21B9	186
0x211A	27	0x2142	67	0x216A	107	0x2192	147	0x21BA	187
0x211B	28	0x2143	68	0x216B	108	0x2193	148	0x21BB	188
0x211C	29	0x2144	69	0x216C	109	0x2194	149	0x21BC	189
0x211D	30	0x2145	70	0x216D	110	0x2195	150	0x21BD	190
0x211E	31	0x2146	71	0x216E	111	0x2196	151	0x21BE	191
0x211F	32	0x2147	72	0x216F	112	0x2197	152	0x21BF	192
0x2120	33	0x2148	73	0x2170	113	0x2198	153	0x21C0	193
0x2121	34	0x2149	74	0x2171	114	0x2199	154	0x21C1	194
0x2122	35	0x214A	75	0x2172	115	0x219A	155	0x21C2	195
0x2123	36	0x214B	76	0x2173	116	0x219B	156	0x21C3	196
0x2124	37	0x214C	77	0x2174	117	0x219C	157	0x21C4	197
0x2125	38	0x214D	78	0x2175	118	0x219D	158	0x21C5	198
0x2126	39	0x214E	79	0x2176	119	0x219E	159	0x21C6	199
0x2127	40	0x214F	80	0x2177	120	0x219F	160	0x21C7	200

	RS485 120	

2019. 9		V1. 0	1.
2020. 4. 1	V1. 0	V1. 1	1. 2. AKH-0. 66/K- 10N 3. 4.
2020. 4. 2	V1. 1	V1. 2	1. ADW2XX-D24 ADW2XX-D36
2020. 5. 6	V1. 2	V1. 3	
2020. 7. 14	V1. 3	V1. 4	
2020. 7. 17	V1. 4	V1. 5	
2020. 9. 29	V1. 5	V1. 6	

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0086-21-69158338 0086-21-69156052 0086-21-59156392 0086-21-69156971

0086-21-69158303

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