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NorwegianHANspesification - OBISListInformation

Item	Description	Value	Remarks
	File name	KFM_001.xlsx	Filename : OBISList identifier.xlsx . Format for publication is pdf.
	List version - date	21.03.2017	DD.MM.YYYY
	OBIS List version identifier	KFM_001	Shall be identical to corresponding OBISCode value in the meter
	Meter type	MA304H3	
	Number of metering systems	2	(1,2,3)
	Direct connected meter	Yes	
	Current Transformer connected	meter(CT No	
	Voltage (V)	3x230	(1x 230, 3x230, 3x230/400)
	Current Imax (A)	100	(80, 100, 100 A) Imax on the meters nameplate
	Baudrate M-BUS (HAN)	2400	
	List 1 Stream out every	2 seconds	
	List 2 Stream out every	10 seconds	
	List 3 Stream out every	1 hour	The values isgenerated at XX:00:00 and streamed out from the HAN interface 10 seconds later (XX:00:10)
0	HAN maximum power to HEMS(mW)	500 mW	The largest power that the customer equipment (HEMSor display) can consume from the meter HAN interface
	HAN maximum current to HEMS(mA)	21 mA	

Kaifa HAN OBIScodes KFM_001

NorwegianHANspesification - OBISCodes

OBISListversionidentifier: KFM 001

Listnumber	OBIS Code - GroupValue							Object name	Unit	Attributes
1	2	3	ABCDE				F			Data type
1			1	0	1	7	0	255 Active power+ (01+04)	kW	double-long-unsigned
	1	1	1	1	0	2	129 255	OBIS List version identifier		octet-String
	2	2	0	0	96	1	0	255 Meter -ID (GIAI GSI-16 digit)		octet-String
	3	3	0	0	96	1	7	255 Meter type		octet-String
	4	4	1	0	1	7	0	255 Active power+ (Q1+Q4)	kW	double-long-unsigned
	5	5	1	0	2	7	0	255 Active power - (02+03)	kW	double-long-unsigned
	6	6	1	0	3	7	0	255 Reactive power + (01+02)	kVAr	double-long-unsigned
	7	7	1	0	4	7	0	255 Reactive power - (03+04)	kVAr	double-long-unsigned
	8	8	1	0	31	7	0	255 IL1 Current phase L1	A	long-signed

9	9	1	0	51	7	0	255 IL2Current phase L2	A	long-signed
10	10	1	0	71	7	0	255 IL3Current phase L3	A	long-signed
11	11	1	0	32	7	0	255 ULN1 Phasevoltage 4W meter , Line voltage 3W meter	V	long-unsigned
12	12	1	0	52	7	0	255 ULN2 Phasevoltage 4W meter , Line voltage 3W meter	V	long-unsigned
13	13	1	0	72	7	0	255 ULN3 Phasevoltage 4W meter , Line voltage 3W meter	V	long-unsigned
	14	0	0	1	0	0	255 Clock and date in meter		octet-String
	15	1	0	1	8	0	255 Cumulative hourly active import energy (A+) (01+04)		kWh double-long-unsigned
	16	1	0	2	8	0	255 Cumulative hourly active export energy (A-)(02+03)		kWh double-long-unsigned
	17	1	0	3	8	0	255 Cumulative hourly reactive import energy (R+)(01+Q2)		kVArh double-long-unsigned
	18	1	0	4	8	0	255 Cumulative hourly reactive export energy (R-)(03+04)		kVArh double-long-unsigned

Kaifa HAN OBIScodes KFM_001

OBIS codes available in different meter types								Meter Types				
OBIS Listversion identifier: KFM 001								LLI	Lu			
List number	OBISCode - Group Value							nl I Ln	rn I IZt	qZr I gls	rn L 'Cr	m
1	2	3	ABCDEF					0	0	000		11.
i			i	0	1	7	0	255	Active power+ (01+04)			
	1	1	1	1	0	2	129	255	OBISList version identifier	X	X	X
	2	2	0	0	96	1	0	255	Meter -ID (GIAI GS1-16 digit)	X	X	X
	3	3	0	0	96	1	7	255	Meter type	X	X	X
	4	4	1	0	1	7	0	255	Active power+ (01+04)	X	X	X
	5	5	1	0	2	7	0	255	Active power - (02+03)	X	X	X
	6	6	1	0	3	7	0	255	Reactive power + (01+02)	X	X	X
	7	7	1	0	4	7	0	255	Reactive power - (Q3+04)	X	X	X
	8	8	1	0	31	7	0	255	IL1 Current phase L1	X	X	X
	9	9	1	0	51	7	0	255	IL2Current phase L2	NA	X	X
	10	10	1	0	71	7	0	255	IL3Current phase L3	NA	X	X
	11	11	1	0	32	7	0	255	ULN1 Phase voltage 4W meter , Line voltage 3W meter	X	X	X
	12	12	1	0	52	7	0	255	ULN2 Phase voltage 4W meter , Line voltage 3W meter	NA	X	X
	13	13	1	0	72	7	0	255	ULN3 Phase voltage 4W meter , Line voltage 3W meter	NA	X	X
			14	0	0	1	0	0	255 Clock and date in meter	X	X	X
			15	1	0	1	8	0	255 Cumulative hourly active import energy (A+) (01+04)	X	X	X
			16	1	0	2	8	0	255 Cumulative hourly active export energy (A-)(02+03)	X	X	X
			17	1	0	3	8	0	255 Cumulative hourly reactive import energy (R+)(Q1+Q2)	X	X	X
			18	1	0	4	8	0	255 Cumulative hourly reactive export energy (R-)(03+Q4)	X	X	X

Kaifa HAN OBIS codes KFM_001

Number	Longdescription	OBISCode
1	Active power in import direction (xxx,xxx kW)	
2	Version number of this OBISlist to track the changes	
3	Serial number of the meter point:16 digits 9999999999999999	
4	Type number of the meter: "MA304H3E"	
5	Active power in import direction (xxx,xxx kW)	
6	Active power in export direction	
7	Reactive power in import direction (xxx,xxx kVAr)	
8	Reactive power in export direction	
9	Instantaneous current of L1(xxx.x A)	
10	0 A Not measured	
11	Instantaneous current of L3	
12	Instantaneous voltage L1-L2 (Phase voltage 4W meter, , Line voltage 3W meter) (xxx.x V) 1 second sampling	
13	Instantaneous voltage L1-L3 (Phase voltage 4W meter, , Line voltage 3W meter) 1 second sampling	
14	Instantaneous voltage L2-L3 (Phase voltage 4W meter, , Line voltage 3W meter) 1 second sampling	
15	Local date and time of Norway (Winter: CET(UTC+1) - Summer: CEST(UTC+2)) http://www.timeanddate.com/worldclock/norway/oslo	
16	Cumulativeactive import active energy (A+) displayed hourly (xxxxxxxx.xxx kWh)	
17	Cumulativeactive export active energy (A-) displayed hourly	
18	Cumulativeactive import reactive energy (R+)displayed hourly (xxxxxxxx.xxx kVArh)	
19	Cumulativeactive export reactive energy (R-)displayed hourly	

Kaifa HAN OBIS codes KFM_001

List Interval

List interval			
Clock	2 sec	10 sec	3600 sec
14:59:56	List 1		
14:59:58	List 1		
15:00:00		List 2	
15:00:02	List 1		
15:00:04	List 1		
15:00:06	List 1		
15:00:08	List 1		
15:00:10			list 3
15:00:12	List 1		
15:00:14	List 1		
15:00:16	List 1		
15:00:18	List 1		
15:00:20		List 2	
15:00:22	List 1		

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