

Open Metering System Specification

OMS-Data Point List

Annex B to
Volume 2: Primary Communication
Issue 5.0.1

RELEASE G (2023-12)

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Document History

Version	Date	Comment	Editor							
A 0.1.0	2013-09-25	Generation of first Draft	U.Pahl							
A 0.2.0	2013-10-16	Update of OMS-DPL	U.Pahl							
A 0.2.1	2013-10-17	Correction T.Banz	U.Pahl							
A 0.2.2	2013-10-18	Foot note 15 for Heat/cooling	U.Pahl							
A 0.2.3	2013-10-21	Bugfix	U.Pahl							
A 0.3.0	2014-01-17	Changes according final vote	U.Pahl							
A 0.3.1	2014-01-25	Rename VIF-Type->VIB-Type Release A	U.Pahl							
B 0.4.0	2014-11-07	Add encryption requirements Add symbols and a	U.Pahl							
B 4.1.0	2016-06-22	Add alternative optional description	Thomas Banz							
C 4.2.0	2019-10-28	Add declaration of "No Data", "C", "C", "Ox", "Empty"; Footnote 16 and 17; Device type "Breaker / Valve"; MB-Tag Section "DC-Disconnector Control", "YD-Descriptors"; MB-Tag "DC1!", "MM8!", "VM4!", "VM5!", "YD1!", "YD1!T", "YD2!P", "YD3!P"; VIB-Type section "CL-Control", "YD-Descriptor"; VIB-Types "MM07", "MM08", "MM09", "MM09", "MM10", "MM11", "VM07", "VM08", "VM09", "VM10", "YD01", YD02", "YD03", "YD04", "YD05", "YD06", "YD07"	Thomas Banz							
D 4.3.0	2020-06-03	Changed headline for B.2.2 New chapter B.2.3 Add conditions from OMS-S2, Annex M to "DC1!", "DT1!", "DT2!D", "EJ1!", "EJ1!T", "EJ2!", "EJ1!D", "EJ1!DT", "EJ2!D", "EW1!", "EW1!D", "EW1!T", "EW1!DT", "EW1!R", "EW1!RT", "EW2!D", "HC1!", "HC1!D", "MM2!", "MM3!", "TC1!"; "TC2!", "VM1!", "VM1!D", "VM1!DT", "VM2!", "VM3!" Editorial changes	Thomas Banz, Achim Reissinger							
D 4.3.1	2020-06-04	Editorial changes in B.2.3	Thomas Banz, Achim Reissinger							
D 4.3.2	2020-06-04	Editorial changes	Uwe Pahl, Achim Reissinger							
D 4.3.3	2020-06-05	Editorial changes	Thomas Banz, Achim Reissinger							
D 4.3.4	2020-07-07	Updated title page Add VIB-Types CL02, HC02 Add group CT Add tags CT1!, XCL2!	AG1, Achim Reissinger							
D 4.3.5	2020-07-09	Wording changed for CT, CT1!, XCL2!	Achim Reissinger							
D 4.3.6	2020-09-24 and	Editorial changes	Achim Reissinger							
	2020-09-29	Add "O1" in Col. Breaker for DT1! And DT2! Add two new MB-Tags:	Uwe Pahl, Thomas Banz							
	and									
	2020-10-02									
D 4.3.7	2020-10-13	List of MB-Command-Tags: Add new group "Compliance Test Command" Change VIB Type Reference form CL02 to CT01 Change to XCL to XDC change Headline top "Disconnector Control Command"	Thomas Banz							

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Version	Date	Comment	Editor
		 Change XCL1! To XDC1! List of VIB-Types: Add new group "Compliance Test" Move CL02 to CT01 Add CL02 	
D 4.3.8	2020-10-19	Release	Achim Reissinger
E 4.4.0	2021-10-21	Add B.2.3 for sensors Update B.2.1, B.2.2, B.2.4 and B.3.1 for sensors	AG1, AG1 TF Sensors, Thomas Banz, Achim Reissinger
5 4 4 4	0004.40	Release candidate	ACA Therese Deve
E 4.4.1	2021-12	List of MB-Data-Tags: Term for "temperature" corrected for TC1!, TC2!, TC3! Condition removed for VM1!DT	AG1, Thomas Banz
		Release	Achim Reissinger
E 4.4.2	2022-01-31 and 2022-02-23 and 2022-05-30	List of MB-Data-Tags: Condition for PT5!PT8! corrected Table footnote 23 added for EJ1!D, EJ1!DT, EW1!D, EW1!DT Colouring of Footnote 23 removed DP5! and DP6! set to optional for all devices List of VIB-Types: Add ER01 Legend and Notes: Declaration of "Time point (X and final DIFE(FD))" changed Line feed inside footnote 21 removed Copyright remark added to front page	Uwe Pahl, Thomas Banz, Achim Reissinger
F 4.5.0	2022-01-31 until 2022-10-15	Release List of MB-Data-Tags: Unit corrected for PT5!PT8! Data Field for Get ID4 set to NoData Table footnote 23 added for DT2!D, EJ1!D, EJ1!DT, EJ2!D, EW1!D, EW1!DT, EW1!R, EW2!D, TC1!, TC2!, VM1!D Condition for UC-07 removed for EJ1!, EJ1!T, EJ2!, EW1!, EW1!T, EW2!, HC1!, HC1!D, VM1!, VM2!, VM3! Change to "last", Add Condition for DT2!D ST2!N and MM6! added List of MB-Command-Tags: Table footnote 24 added Change Data Field to "NoData" for getID4! Groups XDT, XVM, XEJ and XEW added getIDT2!D, getDT2!N, setDT2!N added XMM2!, XMM3!, XMM4! marked as valid until version 4.4.2 notMM2!, notMM3!, clrMM3! replace XMM2!, XMM3!, CMM4!	AG1 Achim Reissinger

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		setID2!, setID10! and setID11! added getMM6!, setMM6! added General section added arl***!, drl***! added Type/Encryption: Change std. Text for this commands to "Command to device" List of VIB-Types:	
		 Group ER added ID04s, ID04g removed due to general rule DT05, ID10, MM17 added Legend and Notes: SelRead" removed 	
		B.1.4 incl. tables 2 to 4 added	
		Copyright remark added to front page	
		Release Candidate	
F 4.5.1	2022-11-08	Integration of review comments	AG1, Achim Reissinger
	to		
	2022-11-14		
F 4.5.2	2022-12-20	List of VIB-Types: ID10 deleted Release	Thomas Banz, Uwe Pahl, Achim Reissinger
G 4.6.0	2023-07-10	Action items #131-3, #132-3, #132-15	Thomas Banz,
	to	integrated Extension of rule for encryption of MB-	Uwe Pahl, Achim Reissinger
	2023-11-03	Command-Tags in document New issue and version number Table index added Table numbering corrected	7 to min reducinger
		List of MB-Data-Tags:	
		 CO Alarm Change Headline to "CO Alarm Device(1Dh)" Heat Alarm Device(1Eh) Add column 	
		with entries Conductivity Sensor Remove	
		columnHeart Beat Sensor Remove column	
		Impedance Sensor Remove column	
		AD4! Add VIB-Type Reference AD14	
		AD5! Add VIB-Type Reference AD15	
		AD6! Add VIB-Type Reference AD16	
		AD7! Add VIB-Type Reference AD17 AD8! Add VIB Type Reference	
		AD8! Add VIB-Type Reference AD18 AD9! Add VIB Type Reference AD19	
		AD9! Add VIB-Type Reference AD19AD10! Add VIB-Type Reference AD20	
		AD11! Add VIB-Type Reference AD21	
		AD12! Add VIB-Type Reference AD22	

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		•	AD13! Add VIB-Type Reference AD23	
		•	AD14! Add VIB-Type Reference DI03	
		•	CC1! Add VIB-Type Reference CC03	
		•	CC2! Add VIB-Type Reference CC04	
		•	ID9! Change Reference to ID10,	
			change marking for CO Alarm from "M"	
			to "O"	
		•	IR1! Add VIB-Type Reference IR02	
		•	LT1! Add VIB-Type Reference LT03	
		•	LT2! Add VIB-Type Reference LT04	
		•	MM12! Add VIB-Type Reference MM18	
		•	MM13! Add VIB-Type Reference MM19	
		•	MM14! Add VIB-Type Reference MM20	
		•	MM15! Add VIB-Type Reference	
			MM21	
		•	MM16! Add VIB-Type Reference MM22	
		•	MM17! Add Tag	
		•	MO1! Add VIB-Type Reference RH03	
		•	ND1! Add VIB-Type Reference ND02	
		•	PF1! Maked as "Valid only until OMS-S2 V4.5.1"	
		•	PH1! Add VIB-Type Reference	
			PH02	
		•	PT1! Add VIB-Type Reference PT09	
		•	PT2! Add VIB-Type Reference PT10	
		•	PT3! Add VIB-Type Reference	
			PT11 and change description from	
		_	"PM1.5" to "PM2.5"	
		•	PT4! Add VIB-Type Reference PT12	
		•	PT5! Add VIB-Type Reference PT13	
		•	PT6! Add VIB-Type Reference PT14	
		•	PT7! Add VIB-Type Reference PT15	
		•	PT8! Add VIB-Type Reference PT16	
		•	RF1! Add VIB-Type Reference DI03 and DI04	
		•	TB1! Add VIB-Type Reference TB02	
		•	VC1! Add VIB-Type Reference VC03	
		•	VC2! Add VIB-Type Reference VC04	
		•	WS1! Add VIB-Type Reference WS02	
		•	ID9! Closed lock symbol added	
		•	DP1!B, DT1!B, DT5!B, EJ1!B, EJ2!B,	
			EW1!B, EW2!B, EW3!B, HC1!B, VM1!B, VM2!B, VM3!B added	
		•	EC added	
		•	EC1!, EC2!, EC1!D, EC2!D added	
		•	EC1!P, EC2!P added	

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Version	Date	Commont	Editor
Version	Date	DT1!P, EJ1!P, EJ1!PT, EJ2!P, EW1!P, EW1!PT, EW2!P, EW3!P, HC1!P, VM1!P, VM2!P, VM3!P added HC1! change "M" to "A1" VM1! change "M" to "A1" for water and hot water ID11! remove encryption symbols for ID11! ID11! changed to ID10! EJ sort group to release mix of EJ1! And EJ2!	Editor
		List of MB-Command-Tags:	
		commands and groups XID11! Add command setID2! Correct Description XID2! Correct Description setID11! Correct VIB-Type reference (ID10> ID09) setID10!, setID11! Remove condition to OMS-S2 Annex M setID10!, setID11! Change Marking	
		from "C" to "O" setID10!, setID11! Change Description setID10!, setID11! Set "setID10!" to "setID11!" and vice versa	
		 List of MB-Data-Tags for sensors: CO Alarm Change Headline to "CO Alarm Device(1Dh)" Heat Alarm Device (1Eh) Add column Conductivity Sensor Remove column Heart Beat Sensor Remove column Impedance Sensor Remove column PT3! Change description from "PM1.5" to "PM2.5" 	
		List of VIB-Types:	
		 FR01, PR01, PR02, PR03, PR04, PR05, PR06, PR07, PR08, RH01, TC04, PJ01 Add Remark AD14, AD15, AD16, AD17, AD18, AD19, AD20, AD21, AD22, AD23, CC03, CC04, DI03, DI04, ID10, IR02, LT03, LT04, MM18, MM19, MM20, MM21, MM22, MM23, ND02, PH02, PT09, PT10, PT11, PT12, PT13, PT14, PT15, PT16, RH03, TB02, VC03, VC04, WS02 Add VIB-Types ID09 Maked as "Valid only until OMS-S2 V4.5.1" 	
		 PF01 Maked as "Valid only until OMS-S2 V4.5.1" ID09 Reactivate with description Device Type EW01 (ed): '000 0nnn'> '0000 0nnn' EC Add EC01, EC02 Add 	

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Version	Date	Comment	Editor
		Release candidate	
G 4.6.1	2023-12-10	Consideration of review comments	AG1, Achim Reissinger
	to		
	2024-01-14	Release	

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B.1 Overview about the OMS-Data Point List

B.1.1 General

The OMS-Data Point List (OMS-DPL) lists all harmonised M-Bus-Tags. An M-Bus Tag is an abstract description of one or several M-Bus data points, which may differ in scaler or resolution or data type (according to [EN13757-3:2018], Table 4).

The OMS-DPL consists of two lists:

- VIB-Type List (VTL)
- M-Bus Tag List (MBTL)

B.1.2 The VIB-Type List

A VIB-Type describes a physical unit with a scaler and an optional VIF property like direction of flow. Each VIB-Type in the VIB-Type-List is associated with one unique combination of VIF and VIFE.

Example: "EW02" means energy in Watt with special scaler 10⁵ to 10⁶ used only for imported energy.

B.1.3 The M-Bus Tag List

Each MB-Tag listed in the OMS-DPL is associated with a unique combination of Tarif "T", Function "F", Storage number "X", the final DIFE "FD" and a set of VIB-Types. The set of VIB-Types has always the same VIF-properties, the same physical unit, but may be different scalers or different data types. One MB-Tag can be used by different device types (e.g. EW1! – Energy in Watt is in use for Electricity, Heat and Cooling meters).

Example: MB-Tag EW1!R describes a recent value of energy used for billing. This MB-Tag declares

- a historical (recent) value by a set FD
- a register (declared by Storage number X)
- an instantaneous value (declared by function F=0)
- applies no tariff (T=0)
- Unit is always Watt (declared by the VIB-Type)
- The scaler has a range of 10⁻⁶ to 10⁶ (declared by the VIB-Types EW01, EW02 and EW03)

Such a MB-Tag could be coded as shown in Table B.1.

Table B.1: Example of MB-Tag EW1!R

	•		
Example	DIF/DIFE	VIF/VIFE	Value
12,3 MWh (in register 5)	C2h 82h 00h	FBh 00h	7Bh 00h
12300 kWh (in register 5)	CBh 82h 00h	06h	00h 23h 01h

B.1.4 M-Bus Commands

M-Bus commands are represented by M-Bus-Command-Tags. The M-Bus-Command-Tag uses the same VIB-Type as an M-Bus-Data-tag. M-Bus Command-Tags are usually identified by a command action added to the VIB-Type.

NOTE 1: Some commands do not use a command action for historical reasons.

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The used command actions shall be according to Table B.2.

Table B.2: Command methods and their action code

Command	Command action	Action code
Set value	set	00h
Add to value	add	01h
Subtract from value	sub	02h
Mask value with binary OR	bor	03h
Mask value with binary AND	and	04h
Mask value with binary XOR	xor	05h
Mask value with binary NOT AND	not	06h
Clear value	clr	07h
Add to readout-list ^a	arl	0Ch
Delete from readout-list ^a	drl	0Dh
Get value	get	0Fh

To add MB-Data-Tags to or delete them from the readout list, the OMS enddevice shall support

- the actually implemented VIB-Type and
- the first VIB-Type in the column "VIB-Type Reference" of the MB-Data-Tag list, where all possibly coming "n" shall be set to 0 (see Table B.4 for an example).

The command action is represented in the M-Bus data point by an M-Bus action code according to Table B.2 (see also [EN13757-3:2018], 6.4.7).

The Action code shall be the last VIFE of the VIB type. To signal that the VIB-Type is being extended, the extension bit of the previous VIF(E) shall be set.

In case of a compact profile in a command tag the VIFE of the compact profile (13h, 1Eh or 1Fh) is the very last VIFE.

NOTE 2: As an M-Bus action code is added to the VIB type of a command, the M-Bus-Command-tag becomes one byte longer than the corresponding M-Bus-Data-tag.

OMS end-devices shall not send M-Bus Command-Tags.

Table B.3 and Table B.4 show examples for the VIB-Type extension of M-Bus-Command-Tags.

Table B.3: Example for the VIB-Type extension of an M-Bus-Command tag with ID4!

	M-Bus-Tag	VIB-Type	M-Bus data point in hex
M-Bus-Data-tag for "Ownership number" with value 123456	ID4!	ID04	0B FD 11 56 34 12
M-Bus-command-tag for "Set Ownership number" to 123456	setID4!	set[ID04]	0B FD 9 1 00 56 34 12
M-Bus-command-tag for "Get Ownership number"	getID4!	get[ID04]	00 FD 9 1 0F

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Table B.4: Example for the VIB-Type extension of an M-Bus-Command tag with VM1!D

Note	M-Bus-Tag	VIB-Type	M-Bus data point in hex
M-Bus-Data-tag for	VM1!D	VM02	4C 93 7D 78 56 34 12
"Volume (V), accumulated, total, due date value" with value 12345678		with nnn = 011 _b	
M-Bus-command-tag for	arlVM1!D	arl[VM01]	40 90 0C
"Add Volume (V), accumulated, total, due date value to readout list"		with nnn = 000 _b	
M-Bus-command-tag for	delVM1!D	del[VM02]	40 93 FD 0D
"Delete Volume (V), accumulated total, due date value from readout list"		with nnn as used by the meter	

The communication partner shall use the communication security profile applied by the OMS end-device.

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B.2 M-Bus Tag List

B.2.1 Legend and Notes

Data Field:

INT = Integer (8 Bit - 64 Bit) refer to [EN13757-3:2018], Table 4

8INT = 8 Bit Integer/Binary refer to [EN13757-3:2018], Table 4

64INT = 64 Bit Integer/Binary refer to [EN13757-3:2018], Table 4

BCD = Binary Coded Decimal refer to [EN13757-3:2018], Table 4

8BCD = 4 Byte BCD refer to [EN13757-3:2018], Table 4

VarLen = variable length refer to [EN13757-3:2018], Table 4

Type F = Compound CP32: Date and Time refer to [EN13757-3:2018], Annex A

Type G = Compound CP16: Date refer to [EN13757-3:2018], Annex A

Type I = Year down to second refer to [EN13757-3:2018], Annex A

Type J = Time of day refer to [EN13757-3:2018], Annex A

No Data = No Data refer to [EN13757-3:2018], Table 4

M = Mandatory (These data objects shall be provided.)

Ax = Alternatively (At least one of the with "A" and identical number marked data objects is mandatory.)

Xx = Exclusively alternatively (Precisely one of the with "X" and identical number marked data objects is mandatory.)

O = Optional (These data objects may or may not be provided.)

Ox = Optional alternatively (Only one of the with 'O' and identical number marked data objects are allowed in the datagram.)

C = Conditional (Mandatory if condition applies). If condition does not apply, optional 'O' is valid.

C Ox = Conditional or optional alternatively (mandatory if condition applies). If condition does not apply, optional alternatively 'Ox' is valid.

Empty = An empty field indicates that this MB-Tag is not applicable to this device type.

S = MB-Sensor-Tag, see chapter "List of MB-Sensor-Tags".

E = Exclusively use (Mandatory if condition applies. Otherwise it is not applicable to this device type.)

Encryption

The column "type" also shows the encryption requirements according to the selected security profile [OMS-S2], 9.1. In the headline of each value group a respective symbol can be found which is valid for each M-Bus-Tag below in this group. Only in case of exceptions a separate symbol is shown directly after the type definition of this single M-Bus-Tag (e.g. ID6!).

Symbols:

= Encryption is not allowed.

For data points that are not listed in the M-Bus Tag List encryption is optional. This includes manufacturer specific data. However, it is strongly recommended to encrypt all consumer relevant data.

The letters and numbers in front of the alert sign "!" declare the supported combination of VIB-Types. The letters after the alert sign are optional and declare additional conditions. Every letter after alert sign is used once only).

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Declaration of Measurement condition (F)

- * [] instant
- * [A] maximum
- * [I] minimum
- * [E] Error condition

Declaration of Time point (X and final DIFE(FD))

- * [] current value (X=0)
- * [B] usage according [OMS-S2] Annex R (see also [OMS-S2] Annex G), (X=3)
- * [D] due date value (X=1)
- * [N] next date (X=1)
- * [P] periodical values (X=8..199)
- * [R] Recent value (X=0..99, 101..124 + final DIFE)
- * [C] cumulative value of a maximum/minimum
- * [Xn] Sporadic event, where n is the value of used Storage number (X = 3..31) e.g. 'X3'

Declartion of Tarif-Register (T)

- * [] No tarif
- * [T] Tariff 1..15

Example: 1-0:1.6.e*f "Actual maximum of active power import (+P), recent value for billing, total (value + time stamp)" is coded as "DT1!ART".

- ¹⁰ This MB-Tag is several times used. The description for this MB-Tag depends on the device type of the transmitting OMS end-device.
- ¹¹ Recent values are always coded with a final DIFE with the value 00h. The number of DIFEs is variable. For downward compatibility reasons and for realization of constant data record length it is allowed to use more DIFEs (between the DIF and the final DIFE = 00h) than necessary.
- ¹² Depending on Data field: Identification number (8BCD) or Application Layer Address (64INT) Order of Application Layer Address (ALA) according [EN13757-7:2018], Table 12.
- ¹⁴ Refer to [EN13757-3:2018], Annex E.1
- ¹⁵ For device type comb. Heat/Cooling the tariff 1 is allowed only!
- ¹⁶ According to [EN13757-3:2018], Annex C.3, subunit must be 1 if the disconnector is integrated into a meter.
- ¹⁷ The subunit of the subunit descriptor shall be >0.
- ¹⁹ VarLen with a 14 characters ASCII string (LSB first) according to [EN13757-3:2018], Table 5. For example, the address in [OMS-S2], Table 5 is coded as: 0D 78 0E 34 34 33 33 32 32 31 31 31 30 53 44 51 37

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- ²¹ The OMS end-device shall provide this MB-Tag in a static datagram (according to OMS-S2, 4.3.2.4).
- ²² VarLen with binary value range (E0h EFh)
- ²³ Related M-Bus-Data-Tags may only be transmitted in the consumer information messages (content index 3).
- ²⁴ VIB-Type references enclosed in square brackets are extended with the given action code according to subclause B.1.4.
- ²⁵ The periodical values shall fulfill minimum data granularity and update interval maximum according to [OMS-S2], 4.3.2.2., Table 8.
- ²⁶ This data point is for device type comb. heat/cooling meter (0Dh) expected to be deprecated in the future.

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B.2.2 List of MB-Data-Tags

Type / Encryption	, MB-Tag	Description	Data field	Tariff [T]	Func- tion [F]	Storage [X]	Final DIFE [FD] 11	VIB-Type Reference	Electricity (02h)	HCA (08h)	Cooling (0Ah;0Bh)	Comb. Heat/Cooling (0Dh)	Heat (04h;0Ch)	Gas (03h)	Cold Water (07h;16h)	Hot Water (06h;15h)	Breaker / Valve (20h; 21h)	Sensor Device
<u> </u>	AD	Alarm Devices																
Sensor reading	AD4!	Number of dismounts / removal counter	INT, BCD	0	0	4	no	AD04, AD14										S
Sensor reading	AD5!	Number of test button operated counter	INT, BCD	0	0	5	no	AD05, AD15										S
Sensor reading	AD6!	Number of alarms	INT, BCD	0	0	6	no	AD06, AD16										S
Sensor reading	AD7!	Number of alarm mute switch operated counter	INT, BCD	0	0	7	no	AD07, AD17										S
Sensor reading	AD8!	Number of obstacle detected counter	INT, BCD	0	0	8	no	AD08, AD18										S
Sensor reading	AD9!	Number of smoke entries blocked	INT, BCD	0	0	9	no	AD09, AD19										S
Sensor reading	AD10!	Number of smoke chamber defects	INT, BCD	0	0	10	no	AD10, AD20										S
Sensor reading	AD11!	Number of self-test failed counter	INT, BCD	0	0	11	no	AD11, AD21										S
Sensor reading	AD12!	Number of sounder defect counter	INT, BCD	0	0	12	no	AD12, AD22										S

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Sensor reading	AD13!	Chamber Pollution Level	INT, BCD	0	0	13	no	AD13, AD23										S
Sensor reading	AD14!	Obstacle check distance	INT, BCD	0	0	14	no	DI01, DI02, DI03										S
Δ	CA	Current [A]																
Meter reading	CA1!	Current at phase L1, instantaneous value	INT, BCD	0	0	0	no	CA01	0									
Meter reading	CA2!	Current at phase L2, instantaneous value	INT, BCD	0	0	0	no	CA02	0									
Meter reading	CA3!	Current at phase L3, instantaneous value	INT, BCD	0	0	0	no	CA03	0									
Meter reading	CA4!	Current at neutral L0, instantaneous value	INT, BCD	0	0	0	no	CA04	0									
Δ	CC	Carbon Oxide Content																
Sensor reading	CC1!	Carbon monoxide content	INT, BCD	0	0	0	no	CC01, CC03										S
Sensor reading	CC2!	Carbon dioxide content	INT, BCD	0	0	0	no	CC02, CC04										S
<u> </u>	CD	Conductivity																
Sensor reading	CD1!	Electrical conductivity	INT, BCD	0	0	0	no	CD01										S
<u> </u>	СТ	Compliance test																
_	CT1!	Compliance test function Condition: See OMS-S2 Annex M OMS-UC-00	INT, VarLen	0	0	0	no	CT01	С	С	С	С	С	С	С	С	С	
Δ	DC	Disconnector Control																
Meter/actuator reading	DC1!	Control state of breaker/valve ¹⁶ Condition: See OMS-S2 Annex M OMS-UC-03	INT	0	0	0	no	CL01	С					С	С	С	М	

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Meter/actuator reading	DC2!	Actual physical state of breaker/valve ¹⁶ Condition: See OMS-S2 Annex M OMS-UC-03	INT	0	0	0	no	CL02	С					С	С	С	M	
<u> </u>	DP	Duration/Period																
Time, date of reading ¹⁰	DP1!	Run time difference between measurement of current value and transmission Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no	DP01	С	С	С	С	С	С	С	С		
Time, date of reading	DP1!B	Run time difference between meter value and its transmission Exclusive condition: See OMS-S2 Annex R	INT, BCD	0	0	3	no	DP01	E		Е	Е	Е	Е	Е	E		
Time integral ¹⁰	DP2!	Averaging duration for actual value	INT, BCD	0	0	0	no	DP02	0		0	0	0	0	0	0		
Transmission interval	DP3!	Nominal period of synchronous transmission	INT, BCD	0	0	0	no	DP03	0	0	0	0	0	0	0	0		
-	DP4!	Valid only until OMS-S2 V4.1.2. => Replaced by YD2!P	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Run time of OMS end- device	DP5!	Operating Time	INT, BCD	0	0	0	no	DP05	0	0	0	0	0	0	0	0	0	S
Run time of OMS end- device	DP6!	On Time	INT, BCD	0	0	0	no	DP06	0	0	0	0	0	0	0	0	0	S
<u> </u>	DT	Date / Time (Time stamp)																
Date/Time of OMS-end device ¹⁰	DT1!	Current date/time at time of transmission Condition: See OMS-S2 Annex M OMS-UC-04	Type F,I	0	0	0	no	DT01	C O1	C O1	C 01	C 01	C O1	C 01	C 01	C O1	C O1	S
Time, date of reading	DT1!B	Local date at time of meter value Exclusive condition: See OMS- S2 Annex R	Type F,I	0	0	3	no	DT01	E		Е	E	E	Е	Е	E		

OMS GROUP 17/54



Time, date of reading 10	DT1!R	Local date at time of recent meter value	Type F,I	0	0	099, 101124	yes	DT01	02					02				
Date/Time of reading ^{10 25}	DT1!P	Date/time of periodic meter value Condition: See OMS-S2 Clause 4.3.2.2	Type F,I	0	0	8199	no	DT01	С	С	С	С	С	С	С	С		
Date, time of max. △	DT1!A	Point of time of actual maximum of active power import (+P), current value, total	Type F,I	0	1	0	no	DT01	О3									
Date, time of max. △	DT1!AR	Point of time of actual maximum of active power import (+P). recent value, total	Type F,I	0	1	099, 101124	yes	DT01	O5									
Date, time of max. △	DT1!AT	Point of time of actual maximum of active power import (+P), current value, tariff 115	Type F,I	115	1	0	no	DT01	O4									
Date, time of max. △	DT1!ART	Point of time of actual maximum of active power import (+P). recent value, tariff 115	Type F,I	115	1	099, 101124	yes	DT01	O6									
Date, time of event △	DT1!Xn	Date / Time of related sporadic event	Type F,I	0	0	331	no	DT01										S
Date of reading	DT2!R	Local date at time of recent meter value	Type G	0	0	099, 101124	yes	DT02	O2					O2				
Date of OMS end-device 10	DT2!	Current date at time of transmission	Type G	0	0	0	no	DT02	O1	O1	O1	01	01	O1	O1	O1	O1	S
Date of reading	DT2!D	Local date at last due date Condition - 1: See OMS-S2 Annex M OMS-UC-07 ²³ Condition - 2: See OMS-S2 Annex M OMS-UC-12a Condition - 3: See OMS-S2, 8.4.5.1	Type G	0	0	1	no	DT02		M	С	С	С		С	С		
Date of reading	DT2!N	Local date at next due date Condition: See OMS-S2 Annex M OMS-UC-12a	Type G	0	0	1	no	DT05		С	С	С	С		С	С		

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Date of max. ≜	DT2!A	Point of time of actual maximum of active power import (+P), current value, total	Type G	0	1	0	no	DT02	O3			
Date of max. ♠	DT2!AR	Point of time of actual maximum of active power import (+P). recent value, total	Type G	0	1	099, 101124	yes	DT02	O5			
Date of max. ♠	DT2!AT	Point of time of actual maximum of active power import (+P), current value, tariff 115	Type G	115	1	0	no	DT02	O4			
Date of max. ♠	DT2!ART	Point of time of actual maximum of active power import (+P). recent value, tariff 115	Type G	115	1	099, 101124	yes	DT02	O6			
Date of event	DT2!Xn	Date of related sporadic event	Type G	0	0	331	no	DT02				S
Date, time of max. △	DT3!A	Point of time of actual maximum of active power export (-P), current value, total	Type F,I	0	1	0	no	DT03	O7			
Date, time of max. △	DT3!AR	Point of time of actual maximum of active power export (-P), recent value, total	Type F,I	0	1	099, 101124	yes	DT03	O8			
Date, time of max. △	DT3!AT	Point of time of actual maximum of active power export (-P), current value, tariff 115	Type F,I	115	1	0	no	DT03	O9			
Date, time of max. △	DT3!ART	Point of time of actual maximum of active power export (-P), recent value, tariff 115	Type F,I	115	1	099, 101124	yes	DT03	O 10			
Date of max. ♠	DT4!A	Point of time of actual maximum of active power export (-P), current value, total	Type G	0	1	0	no	DT04	07			
Date of max. ≜	DT4!AR	Point of time of actual maximum of active power export (-P), recent value, total	Type G	0	1	099, 101124	yes	DT04	O8			
Date of max. ♣	DT4!AT	Point of time of actual maximum of active power export (-P), current value, tariff 115	Type G	115	1	0	no	DT04	O9			

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Date of max. ♣	DT4!ART	Point of time of actual maximum of active power export (-P), recent value, tariff 115	Type G	115	1	099, 101124	yes	DT04	O 10						
Time of OMS end-device 10	DT5!	Current time at time of transmission	Type J	0	0	0	no	DT01	O1						
Time of OMS end-device	DT5!B	Local time at time of meter value Exclusive condition: See OMS- S2 Annex R	Type J	0	0	3	no	DT01	E	EE	E	E	E	E	
Δ	EC	Energy in calorie													
Meter reading	EC1!	Energy import	INT, BCD	0	0	0	no	EC01		0	0				
Meter reading	EC1!D	Energy import Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	0	0	1	no	EC01		0 0	0				
Meter reading	EC1!P	Energy, periodical value, import	INT, BCD	0	0	8199	no	EC01		0	0				
Meter reading	EC2!	Energy import (2nd value for cooling), current value in calorie, total	INT, BCD	0	0	0	no	EC02		0					
Meter reading	EC2!D	Energy import (2nd value for cooling), due date value in calorie, total Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	0	0	1	no	EC02		C					
Meter reading	EC2!P	Energy import (2nd value for cooling), periodical value in calorie, total	INT, BCD	0	0	8199	no	EC02		0					
_	EJ	Energy in Joule													
Meter reading	EJ1!	Energy import	INT, BCD	0	0	0	no	EJ01, EJ02, EJ03		(1 X	X1				
Meter reading	EJ1!B	Energy import Exclusive condition: See OMS- S2 Annex R	INT, BCD	0	0	3	no	EJ01, EJ02, EJ03		EE	E				

OMS GROUP 20/54



Meter reading	EJ1!T ²⁶	Energy import (2nd value for cooling), current value in Joule, total	INT, BCD	1	0	0	no	EJ01, EJ02, EJ03,			X	2		
Meter reading	EJ1!P	Energy, periodical value, import	INT, BCD	0	0	8199	no	EJ01, EJ02, EJ03		(07 0	7 07		
Meter reading	EJ1!D	Energy import Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	0	0	1	no	EJ01, EJ02, EJ03				C 3 O3		
Meter reading	EJ1!DT ²⁶	Energy import (2nd value for cooling), due date value in Joule, total Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	1	0	1	no	EJ01, EJ02, EJ03,			0:			
Meter reading	EJ2!	Energy import (2nd value for cooling), current value in Joule, total	INT, BCD	0	0	0	no	EJ04, EJ05, EJ06,			X	2		
Meter reading	EJ2!B	Energy import (2nd value for cooling), current value in Joule, total Exclusive condition: See OMS-S2 Annex R	INT, BCD	0	0	3	no	EJ04, EJ05, EJ06,			E			
Meter reading	EJ2!D	Energy import (2nd value for cooling), due date value in Joule, total Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	0	0	1	no	EJ04, EJ05, EJ06,			O.			
Meter reading	EJ2!P	Energy import (2nd value for cooling), periodical value in Joule, total	INT, BCD	0	0	8199	no	EJ04, EJ05, EJ06,			O	3		
<u> </u>	ER	Electrical Resistance												
Sensor reading	ER1!	Electrical Resistance	INT, BCD	0	0	0	no	ER01						S
<u> </u>	EW	Energy in Watt hour												
Meter reading	EW1!	(Active) energy import	INT, BCD	0	0	0	no	EW01, EW02, EW03	A1)	<1 X	X1		

OMS GROUP 21/54



Meter reading	EW1!B	(Active) energy import Exclusive condition: See OMS- S2 Annex R	INT, BCD	0	0	3	no	EW01, EW02, EW03	Ε			E		
Meter reading	EW1!D	Energy import Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	0	0	1	no	EW01, EW02, EW03			C C			
Meter reading	EW1!T ²⁶	(Active) energy import	INT, BCD	115	0	0	no	EW01, EW02, EW03	0		X2			
Meter reading	EW1!DT 26	Energy import (2nd value for cooling), due date value in Watt, total Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	1	0	1	no	EW01, EW02, EW03			C Of	5		ı
Meter reading	EW1!P	(Active) energy, periodical value, import	INT, BCD	0	0	8199	no	EW01, EW02, EW03	0	C	07 07	7 07		
Meter reading	EW1!R	Active energy import (+A), recent value for billing in Watt, total Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	0	0	099, 101124	yes	EW01, EW02, EW03	С					ı
Meter reading	EW1!RT	Active energy import (+A), recent value for billing in Watt, tariff 1-15	INT, BCD	115	0	099, 101124	yes	EW01, EW02, EW03	0					
Meter reading	EW2!	Energy export for electricity/energy import (2nd value for cooling) for comb. heat/cooling	INT, BCD	0	0	0	no	EW04, EW05, EW06	A1		X2			
Meter reading 10	EW2!B	Energy export for electricity/energy import (2nd value for cooling) for comb. heat/cooling Exclusive condition: See OMS-S2 Annex R	INT, BCD	0	0	3	no	EW04, EW05, EW06	E		E			

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Meter reading	EW2!D	Energy import (2nd value for cooling), due date value in Watt, total Condition: See OMS-S2 Annex M OMS-UC-07 23	INT, BCD	0	0	1	no	EW04, EW05, EW06			C 06		ı
Meter reading	EW2!T	Active energy export (-A), current value in Watt, tariff 1-15	INT, BCD	115	0	0	no	EW04, EW05, EW06	0				
Meter reading	EW2!P	energy, periodical value	INT, BCD	0	0	8199	no	EW04, EW05, EW06	0	C	8		
Meter reading	EW2!R	Active energy export (-A), recent value for billing in Watt, total	INT, BCD	0	0	099, 101124	yes	EW04, EW05, EW06	0				
Meter reading	EW2!RT	Active energy export (-A), recent value for billing in Watt, tariff 1-15	INT, BCD	115	0	099, 101124	yes	EW04, EW05, EW06	0				
Meter reading	EW3!	Active energy import (abs.(A)), current value in Watt, total	INT, BCD	0	0	0	no	EW07, EW08, EW09	A1				
Meter reading	EW3!B	Active energy import (abs.(A)), current value in Watt, total Exclusive condition: See OMS-S2 Annex R	INT, BCD	0	0	3	no	EW07, EW08, EW09	E				
Meter reading	EW3!T	Active energy import (abs.(A)), current value in Watt, tariff 1-15	INT, BCD	115	0	0	no	EW07, EW08, EW09	0				
Meter reading	EW3!P	Active energy import (abs.(A)), periodical value in Watt, total	INT, BCD	0	0	8199	no	EW07, EW08, EW09	0				
Meter reading	EW3!R	Active energy import (abs.(A)), recent value for billing in Watt, total	INT, BCD	0	0	099, 101124	yes	EW07, EW08, EW09	0				
Meter reading	EW3!RT	Active energy import (abs.(A)), recent value for billing in Watt, tariff 1-15	INT, BCD	115	0	099, 101124	yes	EW07, EW08, EW09	O				
<u> </u>	FR	Frequency	-					_					

OMS GROUP 23/54



Meter reading	FR1!	Supply frequency, instantaneous value	INT, BCD	0	0	0	no	FR01	0									
<u> </u>	НС	Heat coast allocation units																
Meter reading	HC1!	Unrated integral, current value	INT, BCD	0	0	0	no	HC01, HC02		М								
Meter reading	HC1!D	Unrated integral, due date value	INT, BCD	0	0	1	no	HC01		M								
Meter reading	HC1!P	Unrated integral, periodical value	INT, BCD	0	0	8199	no	HC01, HC02		0								
1	ID	Identification																
Fabrication number	ID1!	Serial number (not changeable number assigned by the manufacturer)	8BCD	0	0	0	no	ID01	0	0	0	0	0	0	0	0	0	S
(Enhanced) identification 12	ID2!	Identification number or full Application Layer Address	64INT, 8BCD	0	0	0	no	ID02	0	0	0	0	0	0	0	0	0	S
Primary address	ID3!	One byte Link Layer Address	8INT	0	0	0	no	ID03	0	0	0	0	0	0	0	0	0	S
Ownership number 🕰 🖺	ID4!	Ownership number	INT, BCD, VarLen	0	0	0	no	ID04	0	0	0	0	0	0	0	0	0	S
Metering point	ID5!	Identification of the metering point	INT, BCD, VarLen	0	0	0	no	ID05	0	0	0	0	0	0	0	0	0	S
Unique message identification ♣	ID6!	Unique message identification	INT	0	0	0	no	ID06	0	0	0	0	0	0	0	0	0	S
DIN address	ID7!	Initial DIN address	VarLen	0	0	0	no	ID01	0	0	0	0	0	0	0	0	0	S
DIN address	ID8!	Current DIN address	VarLen	0	0	0	no	ID02	0	0	0	0	0	0	0	0	0	S
	ID9!	Valid only until OMS-S2 V4.5.1. => Replaced by ID11!																
Device type information	ID10!	Device type	8INT	0	0	0	no	ID09	0	0	0	0	0	0	0	0	0	

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Device type information ♠ ♣	ID11!	Sub Device Types	VarLen	0	0	0	no	ID10										S
<u> </u>	IR	Irradiance																
Sensor reading	IR1!	Irradiance, Radiant flux density	INT, BCD	0	0	0	no	IR01, IR02										S
<u> </u>	LT	Light																
Sensor reading	LT1!	Illuminance	INT, BCD	0	0	0	no	LT01, LT03										S
Sensor reading	LT2!	Luminous intensity	INT, BCD	0	0	0	no	LT02, LT04										S
<u> </u>	MM	Meter Management																
Quality of Service	MM1!	Reception level	INT, BCD	0	0	0	no	MM01	0	0	0	0	0	0	0	0	0	S
Quality of Service	MM1!I	Quality limit of reception level	INT, BCD	0	2	0	no	MM01	0	0	0	0	0	0	0	0	0	S
Quality of Service	MM1!E	Noise level	INT, BCD	0	3	0	no	MM01	0	0	0	0	0	0	0	0	0	S
Error	MM2!	Error flags Condition: See OMS-S2 Annex M OMS-UC-06	INT	0	0	0	no	MM02	С	С	С	С	С	С	С	С	С	S
Error	MM3!	Error flags (standard) ¹⁴ Condition: See OMS-S2 Annex M OMS-UC-06	INT	0	0	0	no	MM03	С	С	С	С	С	С	С	С	С	S
Operator data	MM4!	Operator specific data (reserved for the operator)	INT, BCD, VarLen	0	0	0	no	MM04	0	0	0	0	0	0	0	0	0	S
-	MM5!	Valid only until OMS-S2 V4.1.2. => Replaced by YD3!P	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MM6!	Currently selected application Condition: See OMS-Se Annex M OMS-UC-14	INT	0	0	0	no	MM17	С	С	С	С	С	С	С	С	С	S
Meter reading △	MM7!	Cumulation counter (contains the last written register)	INT	0	0	0	no	MM06	0									

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OMS end- device information	MM8!	Remaining battery lifetime	INT, BCD	0	0	0	no	MM09, MM10	0	0	0	0	0	0	0	0	0	S
Sensor reading	MM12!	Battery status	INT, BCD	0	0	0	no	MM12, MM18										S
Sensor status	MM13!	Status bits for pressure sensor	INT	0	0	0	no	MM13, MM19										S
Sensor status	MM14!	Status bits for CO alarm devices	INT	0	0	0	no	MM14, MM20										S
Sensor status	MM15!	Status bits for smoke alarm devices	INT	0	0	0	no	MM15, MM21										S
Sensor status	MM16!	Status bits for "Door/Window Contact Sensor" and "Locked Door/Window Detector"	INT	0	0	0	no	MM16, MM22										S
Sensor status	MM17!	Status bits for heat alarm device	INT	0	0	0	no	MM23										S
<u> </u>	МО	Moisture																
Sensor reading	MO1!	Moisture in %	INT, BCD	0	0	0	no	RH02, RH03										S
<u> </u>	ND	Noise																
Sensor reading	ND1!	Noise	INT, BCD	0	0	0	no	ND01, ND02										S
<u> </u>	PD	Phase in Degree																
Meter reading	PD1!	Angle between voltage on phase L1 and L2, instantaneous value	INT, BCD	0	0	0	no	PD01	0									
Meter reading	PD2!	Angle between voltage on phase L2 and L3, instantaneous value	INT, BCD	0	0	0	no	PD02	0									
Meter reading	PD3!	Angle between voltage on phase L3 and L1, instantaneous value	INT, BCD	0	0	0	no	PD03	0									
Meter reading	PD4!	Angle between voltage and current on phase L1, instantaneous value	INT, BCD	0	0	0	no	PD04	0									
Meter reading	PD5!	Angle between voltage and current on phase L2, instantaneous value	INT, BCD	0	0	0	no	PD05	0									

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Meter reading	PD6!	Angle between voltage and current on phase L3, instantaneous value	INT, BCD	0	0	0	no PD06	0					
<u> </u>	PF	Pulse frequency											
_ 	PF1!	Valid only until OMS-S2 V4.5.1											
<u> </u>	PH	pH value											
Sensor reading	PH1!	pH value	INT, BCD	0	0	0	no PH01, PH02						S
<u> </u>	PJ	Power in Joule per hour											
Power ¹⁰	PJ1!	Power (energy flow) (P), average, current value Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no PJ01		O2	O2	O2		
Power	PJ1!T ²⁶	Power (energy flow) (P), average, current value, tarif 1	INT, BCD	1	0	0	no PJ01			O4			
<u> </u>	PR	Pressure											
Base pressure	PR1!	defined Pressure, absolute, at base conditions (p_b)	INT, BCD	0	0	0	no PR01, PR02				0		S
Pressure	PR2!	Defined pressure, absolute	INT, BCD	0	0	0	no PR03, PR04						S
Pressure	PR3!	Upper pressure threshold	INT, BCD	0	0	0	no PR05, PR06						S
Pressure	PR4!	Lower pressure threshold	INT, BCD	0	0	0	no PR07, PR08						S
<u> </u>	PT	Particles											
Sensor reading	PT1!	Particles as unspecific range [µg/m3]	INT, BCD	0	0	0	no PT01, PT09						S
Sensor reading	PT2!	Particles as PM1 [µg/m3]	INT, BCD	0	0	0	no PT02, PT10						S
Sensor reading	PT3!	Particles as PM2.5 [µg/m3]	INT, BCD	0	0	0	no PT03, PT11						S
Sensor reading	PT4!	Particles as PM10 [μg/m3]	INT, BCD	0	0	0	no PT04, PT12						S

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Sensor reading	PT5!	Particles as unspecific range [10e5/m³]	INT, BCD	0	0	0	no	PT05, PT13						S
Sensor reading	PT6!	Particles as PM1 [10e5/m³]	INT, BCD	0	0	0	no	PT06, PT14						S
Sensor reading	PT7!	Particles as PM2.5 [10e5/m³]	INT, BCD	0	0	0	no	PT07, PT15						S
Sensor reading	PT8!	Particles as PM10 [10e5/m ³]	INT, BCD	0	0	0	no	PT08, PT16						S
<u> </u>	PW	Power in Watt												
Meter reading	PW1!	Active power, current value Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no	PW01	0	0	2 02	2 02		
Meter reading	PW1!T ²⁶	Power (energy flow) (P), average, current value, tarif1	INT, BCD	1	0	0	no	PW01			O ²	1		
Meter reading	PW1!A	Actual maximum of active power import (+P), current value, total	INT, BCD	0	1	0	no	PW01	0					
Meter reading	PW1!AT	Actual maximum of active power import (+P), current value, tariff 115	INT, BCD	115	1	0	no	PW01	0					
Meter reading	PW1!AR	Actual maximum of active power import (+P), recent value for billing, total	INT, BCD	0	1	099, 101124	yes	PW01	0			П		
Meter reading	PW1!ART	Actual maximum of active power import (+P), recent value for billing, tariff 115	INT, BCD	115	1	099, 101124	yes	PW01	0					
Meter reading	PW3!	Active power export (-P), current value Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no	PW03	С					
Meter reading	PW3!A	Actual maximum of active power export (-P), current value, total	INT, BCD	0	1	0	no	PW03	0					
Meter reading	PW3!AT	Actual maximum of active power export (-P), current value, tariff 115	INT, BCD	115	1	0	no	PW03	0					

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Meter reading	PW3!AR	Actual maximum of active power export (-P), recent value for billing, total	INT, BCD	0	1	099, 101124	yes	PW03	0			
Meter reading	PW3!ART	Actual maximum of active power export (-P), recent value for billing, tariff 115	INT, BCD	115	1	099, 101124	yes	PW03	0			
Meter reading	PW4!AC	Cumulative maximum of active power import (+P), total	INT, BCD	0	1	0	no	PW04	0			
Meter reading	PW4!ACT	Cumulative maximum of active power import (+P), tariff 1-15	INT, BCD	115	1	0	no	PW04	0			
Meter reading	PW6!AC	Cumulative maximum of active power export (-P), total	INT, BCD	0	1	0	no	PW06	0			
Meter reading	PW6!ACT	Cumulative maximum of active power export (-P), tariff 1-15	INT, BCD	115	1	0	no	PW06	0			
Meter reading	PW7!	Active power absolute (P), instantaneous value, total Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no	PW07, PW08	С			
Meter reading	PW8!	Active power absolute (P), instantaneous value, total	INT, BCD	0	0	0	no	PW09, PW10	0			
<u> </u>	RE	Reactive Energy										
Meter reading	RE1!	Reactive energy import (+R), current value, total	INT, BCD	0	0	0	no	RE01, RE02	0			
Meter reading	RE1!T	Reactive energy import (+R), current value, tariff 1-15	INT, BCD	115	0	0	no	RE01, RE02	0			
Meter reading	RE1!R	Reactive energy import (+R), recent value for billing, total	INT, BCD	0	0	099, 101124	yes	RE01, RE02	0			
Meter reading	RE1!RT	Reactive energy import (+R), recent value for billing, tariff 1-15	INT, BCD	115	0	099, 101124	yes	RE01, RE02	0			
Meter reading	RE2!	Reactive energy export (-R), current value, total	INT, BCD	0	0	0	no	RE03, RE04	0			
Meter reading	RE2!T	Reactive energy export (-R), current value, tariff 1-15	INT, BCD	115	0	0	no	RE03, RE04	0			

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Meter reading	RE2!R	Reactive energy export (-R), recent value for billing, total	INT, BCD	0	0	099, 101124	yes	RE03, RE04	0							
Meter reading	RE2!RT	Reactive energy export (-R), recent value for billing, tariff 1-15	INT, BCD	115	0	099, 101124	yes	RE03, RE04	0							
Δ	RF	Rainfall														
Sensor reading	RF1!	Rainfall	INT, BCD	0	0	0	no	DI01, DI03, DI04								S
<u> </u>	RH	Relative Humidity														
Sensor reading	RH1!	Relative Humidity in %	INT, BCD	0	0	0	no	RH01								S
	RP	Reactive Power														
Meter reading	RP1!	Reactive power import (+Q), current value	INT, BCD	0	0	0	no	RP01	0							
Meter reading	RP2!	Reactive power export (-Q), current value	INT, BCD	0	0	0	no	RP02	0							
Δ	ТВ	Turbidity														
Sensor reading	TB1!	Turbidity	INT, BCD	0	0	0	no	TB01, TB02								S
_	TC	Temperature in °C														
Temperature ¹⁰	TC1!	Flow temperature, current value Condition: See OMS-S2 Annex M OMS-UC-07 23	INT, BCD	0	0	0	no	TC01		0	С	С	С			
Temperature ¹⁰	TC2!	Return temperature, current value Condition: See OMS-S2 Annex M OMS-UC-07 23	INT, BCD	0	0	0	no	TC02		0	С	С	С			S
Base temperature	TC3!	defined Temperature, absolute, at base conditions (T_b) or for conversion (T_{tc})	INT, BCD	0	0	0	no	TC03					C)		
Sensor reading	TC4!	External Temperature	INT, BCD	0	0	0	no	TC04								S

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Sensor reading	TC5!	Minimum temperature limit value	INT, BCD	0	2	0	no TC05							S
Sensor reading	TC6!	Maximum temperature limit value	INT, BCD	0	1	0	no TC05							S
<u> </u>	TS	Tension												
Sensor reading	TS1!	Tension	INT, BCD	0	0	0	no TS01							S
<u> </u>	VC	VOC Content												
Sensor reading	VC1!	VOC Content [ppb]	INT, BCD	0	0	0	no VC01, VC03							S
Sensor reading	VC2!	VOC Content [μg/m3]	INT, BCD	0	0	0	no VC02, VC04							S
<u> </u>	VF	Volume Flow												
Flow rate ¹⁰	VF1!	Flow rate Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no VF01	C	0	0	0	0	0	S
Flow rate	VF1!T ²⁶	Flow rate, average (Va/t), current value, tariff 1	INT, BCD	1	0	0	no VF01		0					
Flow rate	VF2!	Flow rate Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no VF02				С			
Flow rate	VF3!	Flow rate Condition: See CEN/TR 17167:2018 Annex C.2	INT, BCD	0	0	0	no VF03				С			
<u> </u>	VM	Volume in m ³												
Meter reading	VM1!	Volume, current value, total	INT, BCD	0	0	0	no VM01, VM02	C	0	0	A1	M	М	
Meter reading	VM1!B	Volume, current value, total Exclusive condition: See OMS- S2 Annex R	INT, BCD	0	0	3	no VM01, VM02				E	E	Е	

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Meter reading 10	VM1!D	Volume (V), accumulated, total, due date value Condition: See OMS-S2 Annex M OMS-UC-07 ²³	INT, BCD	0	0	1	no	VM01, VM02		0	0	0	С	С	
Meter reading	VM1!T ²⁶	Volume, current value, tariff	INT, BCD	115	0	0	no	VM01, VM02			0	0			
Meter reading	VM1!DT	Volume (V), accumulated, due date value, tarif 1 (2nd value for cooling)	INT, BCD	1	0	1	no	VM01, VM02			0				
Meter reading	VM1!P	Volume, periodical value, total	INT, BCD	0	0	8199	no	VM01, VM02		0	0	O O3	0	0	
Meter reading	VM1!R	Volume (meter), temperature converted (Vtc), forward, absolute, recent value for billing, total	INT, BCD	0	0	099, 101124	yes	VM01, VM02				0			
Meter reading	VM1!RT	Volume (meter), temperature converted (Vtc), forward, absolute, recent value for billing, tariff 1-15	INT, BCD	115	0	099, 101124	yes	VM01, VM02				0			
Meter reading	VM2!	Volume (meter), measuring conditions (V _m), forward, absolute, current value, total	INT, BCD	0	0	0	no	VM03, VM04				A1			
Meter reading	VM2!B	Volume (meter), measuring conditions (V _m), forward, absolute, current value, total <i>Condition:</i> See <i>OMS-S2 Annex R</i>	INT, BCD	0	0	3	no	VM03, VM04				E			
Meter reading	VM2!T	Volume (meter), measuring conditions (V _m), forward, absolute, current value, tariff 1-15	INT, BCD	115	0	0	no	VM03, VM04				0			
Meter reading ²⁵	VM2!P	Volume (meter), measuring conditions (V _m), forward, absolute, periodical value, total	INT, BCD	0	0	8199	no	VM03, VM04				O3			

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Meter reading	VM2!R	Volume (meter), measuring conditions (V _m), forward, absolute, recent value for billing, total	INT, BCD	0	0	099, 101124	yes	VM03, VM04			0			ı
Meter reading	VM2!RT	Volume (meter), measuring conditions (V _m), forward, absolute, recent value for billing, tariff 1-15	INT, BCD	115	0	099, 101124	yes	VM03, VM04			0		ı	
Meter reading	VM3!	Volume (meter), base conditions (V _b), forward, absolute, current value, total	INT, BCD	0	0	0	no	VM05, VM06			A1			
Meter reading	VM3!B	Volume (meter), base conditions (V _b), forward, absolute, current value, total <i>Exclusive condition: See OMS-S2 Annex R</i>	INT, BCD	0	0	3	no	VM05, VM06			E			
Meter reading	VM3!T	Volume (meter), base conditions (V _b), forward, absolute, current value, tariff 1-15	INT, BCD	115	0	0	no	VM05, VM06			0			
Meter reading	VM3!P	Volume (meter), base conditions (V _b), forward, absolute, periodical value, total	INT, BCD	0	0	8199	no	VM05, VM06			O3			
Meter reading	VM3!R	Volume (meter), base conditions (V _b), forward, absolute, recent value for billing, total	INT, BCD	0	0	099, 101124	yes	VM05, VM06			0			
Meter reading	VM3!RT	Volume (meter), base conditions (V _b), forward, absolute, recent value for billing, tariff 1-15	INT, BCD	115	0	099, 101124	yes	VM05, VM06			0			
Meter reading	VM4!	Volume, forward value	INT, BCD	0	0	0	no	VM07, VM08				0	0	
Meter reading	VM5!	Volume, backward value	INT, BCD	0	0	0	no	VM09, VM10				0	0	
<u> </u>	VV	Voltage in Volt												
Meter reading	VV1!	Voltage at phase L1, instantaneous value	INT, BCD	0	0	0	no	VV01	0					

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Meter reading	VV2!	Voltage at phase L2, instantaneous value	INT, BCD	0	0	0	no	VV02	0								
Meter reading	VV3!	Voltage at phase L3, instantaneous value	INT, BCD	0	0	0	no	VV03	0								
<u> </u>	WS	Wind speed															
Sensor reading	WS1!	Wind speed	INT, BCD	0	0	0	no	WS01, WS02									S
<u> </u>	YD	Descriptors															
Descriptor	YD1!	Subunit descriptor ¹⁷ Condition: See OMS-S2 Annex K	INT, BCD	0	0	0	no	YD01	С	С	С	С	С	С	С	С	
Descriptor	YD1!T	Tariff descriptor Condition: See OMS-S2 Annex K	INT, BCD	115	0	0	no	YD01	С	С	С	С	С	С	С	С	
Descriptor	YD2!P	Storage interval descriptor Condition: See OMS-S2 Annex K	INT, BCD	0	0	1199	no	YD02, YD03, YD04	С	С	С	С	С	С	С	С	
Descriptor	YD3!P	Storage range descriptor Condition: See OMS-S2 Annex K	INT, BCD	0	0	1199	no	YD05, YD06, YD07	С	С	С	С	С	С	С	С	

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B.2.3 List of MB-Sensor-Tags

Description	MB-Tag	Pressure Device (18h)	Smoke Alarm Device (1Ah)	CO Alarm Device (1Dh)	Heat Alarm Device (1Eh)	Humidity Sensor	Moisture Sensor	Temperature Sensor	Light Sensor	Rainfall Sensor	pH Sensor	Anemometer	Glass Break Detector	Door/Window Contact	Locked Door/Window	Water Leakage Detector	Air Quality Sensor	CO2 Sensor	Turbidity Sensor
	ind rag																		
Number of dismounts / removal counter	AD4!		0	0	0														
Number of test button operated counter	AD5!		0	0	0														
Number of alarms	AD6!		0	0	0														
Number of alarm mute switch operated counter	AD7!		0	0	0														
Number of obstacle detected counter	AD8!		0	0	0														
Number of smoke entries blocked	AD9!		0	0															
Number of smoke chamber defects	AD10!		0	0															
Number of self-test failed counter	AD11!		0	0	0														
Number of sounder defect counter	AD12!		0	0	0														
Chamber Pollution Level	AD13!		0	0															
Obstacle check distance	AD14!		0	0	0														
Carbon monoxide content	CC1!			М													0		
Carbon dioxide content	CC2!																0	M	
Electrical conductivity	CD1!													0	0				
Operating Time	DP5!	0	A1	A1	A1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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On Time

06

Current date/time at time of transmission Condition: See OMS-S2 Annex M OMS-UC-04

Date / Time of related sporadic event Current date at time of transmission Date of related sporadic event **Electrical Resistance** Serial number (not changeable number assigned by the manufacturer) Identification number or full Application Layer Address One byte Link Layer Address Ownership number Identification of the metering point Unique message identification Initial DIN address Current DIN address Sub Device Types Irradiance, Radiant flux density Illuminance Luminous intensity Reception level Quality limit of reception level Noise level **Error flags** Condition: See OMS-S2 Annex M OMS-UC-

DP6!	0	A1	A1	A1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DT1!	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
		00	00	00												00	00	
DT1!Xn		02	02		0.1	0.1	0.1	0.1	<u> </u>	0.1	0.4	0.1	0.1		0.1	02	_	0.1
DT2!	01	01	01		01	01	01	01	01	01	01	01	01	01	01	01	01	01
DT2!Xn		02	O2	02												O2	O2	
ER1!													0	0				
ID1!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID2!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID3!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID4!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID5!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID6!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID7!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID8!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID11!	0	0	0	0	М	М	М	М	М	М	M	М	М	М	М	М	М	M
IR1!								0										
LT1!								A1										
LT2!								A1										
MM1!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MM1!I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MM1!E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MM2!	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С

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Error flags (standard) 14 Condition: See OMS-S2 Annex M OMS-UC-06

Operator specific data (reserved for the operator)

Currently selected application Condition: See OMS-Se Annex M OMS-UC-14

Remaining battery lifetime
Battery status
Status bits for pressure sensor
Status bits for CO alarm devices
Status bits for smoke alarm devices
Status bits for "Door/Window Contact
Sensor" and "Locked Door/Window
Detector"

Status bits for heat alarm device Moisture in %

Noise

pH value

defined Pressure, absolute, at base conditions (pb)

Defined pressure, absolute Upper pressure threshold

Lower pressure threshold

Particles as unspecific range [$\mu g/m^3$] Particles as PM1 [$\mu g/m^3$]

MM3!	С	С	С	С	M	M	M	M	M	M	M	M	M	M	M	M	M	M
MM4!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MM6!	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С	С
MM8!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MM12!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MM13!	M																	
MM14!			М															
MM15!		М																
MM16!													M	M				
MM17!				М														
MO1!						М												
ND1!												A1						
PH1!										М								
PR1!	A1																	
PR2!	A1																	
PR3!	M21																	
PR4!	M21																	
PT1!																0	0	
PT2!																0	0	

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Particles as PM2.5 [µg/m³]

Particles as PM10 [μg/m³]

Particles as unspecific range [10e5/m³]

Particles as PM1 [10e5/m³]

Particles as PM2.5 [10e5/m³]

Particles as PM10 [10e5/m³]

Rainfall

Relative Humidity in %

Turbidity

Return temperature, current value Condition: See OMS-S2 Annex M OMS-UC-07 ²³

External Temperature

Minimum temperature limit value

Maximum temperature limit value

Tension

VOC Content [ppb]

VOC Content [μg/m³]

Flow rate

Condition: See CEN/TR 17167:2018 Annex

C.2

Wind speed

PT3!													0	0	
PT4!													0	0	
PT5!													0	0	
PT6!													0	0	
PT7!													0	0	
PT8!													0	0	
RF1!								М							
RH1!				0	M		0						0		
TB1!															М
TC2!					0	0							0		
TC4!	0			М	0	0	M						0		
TC5!		0	0	0			0								
TC6!		0	0	0			0								
TS1!										A1					
VC1!													A1	0	
VC2!													A1	0	
VF1!								0				0			
WS1!									М						

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B.2.4 List of MB-Command-Tags

Туре	MB-Tag	Description	Data field		Func- tion [F]	Storage [X]	Final DIFE [FD] 11	VIB-Type Reference ²⁴	Electricity (02h)	HCA (08h)	Cooling (0Ah;0Bh)	Comb. Heat/Cooling (0Dh)	Heat (04h;0Ch)	Gas (03h)	Cold Water (07h;16h)	Hot Water (06h;15h)	Breaker / Valve (20h; 21h)	Sensor Device
	***	General applicable for all MB-Data- Tag																
	arl***!	Add MB-Data-Tag (***) to readout list Condition: See OMS-S2 Annex M OMS-UC-14	No Data	Accord		MB-Data nition	-Tag	arl[VIB-Type according to MB-Data-Tag]	С	С	С	С	С	С	С	С	С	
	drl***!	Remove MB-Data-Tag (***) from redaout-list Condition: See OMS-S2 Annex M OMS-UC-14	No Data	Accord		MB-Data nition	-Tag	drl[VIB-Type according to MB-Data-Tag]	С	С	С	С	С	С	С	С	С	
	XCT	Compliance Test Command																
Command to OMS end-device	XCT1!	Set test state of compliance test Condition: See OMS-S2 Annex M OMS-UC-00	INT, VarLen	0	0	0	no	CT01	С	С	С	С	С	С	С	С	С	
	XDC	Disconenctor Control Command																
Command to OMS end-device	XDC1!	Set control state of breaker/valve ¹⁶ Condition: See OMS-S2 Annex M OMS-UC-03	INT	0	0	0	no	CL01	С					С	С	С	M	
	XDT	Date / Time (Time stamp)																

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Command to OMS end-device	getDT2!D	Get last due date Condition: See OMS-S2 Annex M OMS-UC-12a	No Data	0	0	1	no	get[DT02]		С	С	С	С	С	С	
Command to OMS end- device	getDT2!N	Get next due date Condition: See OMS-S2 Annex M OMS-UC-12a	No Data	0	0	1	no	get[DT05]		С	С	С	С	С	С	
Command to OMS end-device	setDT2!N	Set next due date Condition: See OMS-S2 Annex M OMS-UC-12a	Type G	0	0	1	no	set[DT05]		С	С	С	С	С	С	
	XEJ	Command Energy in Joule														
Command to OMS end-device	addEJ1!	Add energy to current value Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	add[EJ01], add[EJ02], add[EJ03]	С		С	С	С			
Command to OMS end-device	getEJ1!	Get energy import Condition: See OMS-S2 Annex M OMS-UC-20b	No Data	0	0	0	no	get[EJ01], get[EJ02], get[EJ03]	С		С	С	С			
Command to OMS end-device	setEJ1!	Set energy import Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	set[EJ01], set[EJ02], set[EJ03]	С		С	С	С			
Command to OMS end-device	subEJ1!	Subtract energy from current value Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	sub[EJ01], sub[EJ02], sub[EJ03]	С		С	С	С			
	XEW	Command Energy in Watt hour														
Command to OMS end-device	addEW1!	Add energy to current value Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	add[EW01], add[EW02], add[EW03]	С		С	С	С			
Command to OMS end-device	getEW1!	Get energy import Condition: See OMS-S2 Annex M OMS-UC-20b	No Data	0	0	0	no	get[EW01], get[EW02], get[EW03]	С		С	С	С			
Command to OMS end-device	setEW1!	Set energy import Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	set[EW01], set[EW02], set[EW03]	С		С	С	С			

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Command to OMS end- device	subEW1!	Subtract energy from current value Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	sub[EW01], sub[EW02], sub[EW03]	С		С	С	С				
	XID	Identification															
Command to OMS end-device	setID2!	Set Application Layer Address Condition: See OMS-S2 Annex M OMS-UC-20a	64INT	0	0	0	no	set[ID02]	С	С	С	С	С	С	С	C	С
Command to OMS end-device	XID2!	Set Application Layer Address Condition: See OMS-S2 Annex P	64INT	0	0	0	no	ID02	С	С	С	С	С	С	С	С	С
Command to OMS end- device	XID3!	Set one byte Link Layer Address Condition: See OMS-S2 Annex P	8INT	0	0	0	no	ID03	С	С	С	С	С	С	С	С	С
Command to OMS end-device	getID4!	Get ownership number Condition: See OMS-S2 Annex M OMS-UC-12b	No Data	0	0	0	no	get[ID04]	С	С	С	С	С	С	С	C	С
Command to OMS end-device	setID4!	Set ownership number Condition: See OMS-S2 Annex M OMS-UC-12b	INT, BCD, VarLen	0	0	0	no	set[ID04]	С	С	С	С	С	С	С	С	С
Command to OMS end-device	setID10!	Set device type	8INT	0	0	0	no	set[ID09]	0	0		0	0	0	0	0	0
Command to OMS end-device	XID10!	Set device type Condition: See OMS-S2 Annex P	8INT	0	0	0	no	ID09	С	С		С	С	С	С	С	С
Command to OMS end- device	setID11!	Set identication number	8BCD	0	0	0	no	set[ID02]	0		0			0	0	0	0
Command to OMS end-device	XID11!	Set identication number Condition: See OMS-S2 Annex P	8BCD	0	0	0	no	ID02	С	С	С	С	С	С	С	С	С
	XMM	Meter Management Command				-											
Command to OMS end-device	notMM2!	Masked clear binary coded error flag Condition: See OMS-S2 Annex M OMS-UC-06	INT	0	0	0	no	not[MM02]	С	С	С	С	С	С	С	С	С

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Command to OMS end-device	notMM3!	Masked clear binary coded error flag (standard) Condition: See OMS-S2 Annex M OMS-UC-06	INT	0	0	0	no	not[MM03]	С	С	С	С	С	С	С	С	С	
Command to OMS end-device	clrMM3!	Clear all error flags (standard and manufacturer specific) Condition: See OMS-S2 Annex M OMS-UC-06	No Data	0	0	0	no	clr[MM03]	С	С	С	С	С	С	С	С	С	
	XMM2!	Valid only until OMS-S2 V4.4.2 => Replaced by notMM2!																
	XMM3!	Valid only until OMS-S2 V4.4.2 => Replaced by notMM3!																
	XMM4!	Valid only until OMS-S2 V4.4.2 => Replaced by clrMM3!																
Command to OMS end-device	getMM6!	Get application selection Condition: See OMS-S2 Annex M OMS-UC-14	No Data	0	0	0	no	get[MM17]	С	С	С	С	С	С	С	С	С	
Command to OMS end- device	setMM6!	Set application selection Condition: See OMS-S2 Annex M OMS-UC-14	No Data, INT	0	0	0	no	set[MM17]	С	С	С	С	С	С	С	С	С	
	XVM	Volume Command																
Command to OMS end- device	addVM1!	Add volume to current value Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	add[VM01], add[VM02]						С	С	С		
Command to OMS end-device	getVM1!	Get volume, current value, total Condition: See OMS-S2 Annex M OMS-UC-20b	No Data	0	0	0	no	get[VM01], get[VM02]						С	С	С		
Command to OMS end- device	setVM1!	Set volume, current value, total Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	set[VM01], set[VM02]						С	С	С		
Command to OMS end-device	subVM1!	Subtract volume from current value Condition: See OMS-S2 Annex M OMS-UC-20b	INT, BCD	0	0	0	no	sub[VM01], sub[VM02]						С	С	С		

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B.3 VIB-Type List

B.3.1 Legend and Notes

VIB-Type list

n One or more Bits, according to tables 10, 12, 14, 15 of [EN 13757-3:2018].

Table footnotes

⁵⁰ 'Temperature converted value' is just applicable for device type 03h (gas). All other device types consider this data Point as 'normal value'.

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B.3.2 List of VIB-Types

VIB-Type Reference	VIF / VIFE	Scaler+Unit/Type	Remark
AD	Alarm Devices (CO and Smoke Alarm)		
AD04	0111 1100 0000 0011 0100 1001 0101 0101 0010 0011	# number	Number of dismounts / removal counter (ASCII-Coding: "#UI", Number of Un-Installations)
AD05	0111 1100 0000 0011 0101 0100 0100 0110 0010 0011	# number	Number of test button operated counter (ASCII-Coding: "#FT", Number of Function Tests)
AD06	0111 1100 0000 0011 0100 1100 0100 0001 0010 0011	# number	Number of smoke / CO alarms (ASCII-Coding: "#AL", Number of Alarms)
AD07	0111 1100 0000 0011 0100 1101 0100 0001 0010 0011	# number	Number of alarm mute switch operated counter (ASCII-Coding: "#AM", Number of Alarm Muted)
AD08	0111 1100 0000 0011 0100 0100 0100 1111 0010 0011	# number	Number of obstacle detected counter (ASCII-Coding: "#OD", Number of Obstacle Detected)

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AD09	0111 1100 0000 0	011 0100 0010	0101 0011	0010 0011	# number	Smoke entries blocking cumulated counter (ASCII-Coding: "#SB", Number of Smoke entries Blocked)
AD10	0111 1100 0000 0 0010 0011	100 0100 0100	0100 0011	0101 0011	# number	Smoke chamber defect cumulated counter (ASCII-Coding: "#SCD", Number of Smoke Chamber Defects)
AD11	0111 1100 0000 0	011 0100 0110	0101 0011	0010 0011	# number	Number of self-test failed counter (ASCII-Coding: "#SF", Number of self-test Failed)
AD12	0111 1100 0000 0	011 0100 0100	0101 0011	0010 0011	# number	Number of sounder defect counter (ASCII-Coding: "#SD", Number of Sounder Defect)
AD13	0111 1100 0000 0	011 0101 0000	0100 0011	0010 0101	% percentage	Percentage of Chamber Pollution Level (ASCII-Coding: "%CP")
AD14	1111 1101 1111 1	101 0010 1100			# number	Number of dismounts / removal counter
AD15	1111 1101 1111 1	101 0010 1101			# number	Number of test button operated counter
AD16	1111 1101 1111 1	101 0010 1110			# number	Number of alarms
AD17	1111 1101 1111 1	101 0010 1111			# number	Number of alarm mute switch operated counter
AD18	1111 1101 1111 1	101 0011 0000			# number	Number of obstacle detected counter
AD19	1111 1101 1111 1	101 0011 0001			# number	Smoke entries blocking cumulated counter
AD20	1111 1101 1111 1	101 0011 0010			# number	Smoke chamber defect cumulated counter
AD21	1111 1101 1111 1	101 0011 0011			# number	Number of self-test failed counter

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AD22	1111 1101 1111 1101 0011 0100	# number	Number of sounder defect counter
AD23	1111 1101 1111 1101 0011 1001	percentage 0-100%	Percentage of Chamber Pollution Level
CA	Current [A]		
CA01	1111 1101 1101 nnnn 1111 1100 0000 0001	A 10e-12 10e+3	Curr_L1
CA02	1111 1101 1101 nnnn 1111 1100 0000 0010	A 10e-12 10e+3	Curr_L2
CA03	1111 1101 1101 nnnn 1111 1100 0000 0011	A 10e-12 10e+3	Curr_L3
CA04	1111 1101 1101 nnnn 1111 1100 0000 0100	A 10e-12 10e+3	Curr_N
CC	Carbon Oxide Content		
CC01	0111 1100 0000 0011 0011 0001 0100 1111 0100 0011	ppm 10e0	Carbon monoxide content (ASCII-Coding: "CO1" for Carbon Monoxide)
CC02	0111 1100 0000 0011 0011 0010 0100 1111 0100 0011	ppm 10e0	Carbon dioxide content (ASCII-Coding: "CO2" for Carbon Dioxide)
CC03	1111 1101 1111 1101 0001 001n	ppm 10e+0 10e+1	Carbon monoxide content
CC04	1111 1101 1111 1101 0001 000n	ppm 10e+0 10e+1	Carbon dioxide content
CD	Conductivity		
CD CD01	O111 1100 0000 0011 0011 0001 0100 0100	μS/cm 10e0	electrical conductivity in μS/cm (ASCII-Coding: "CD1" for Conductivity 1)
		μS/cm 10e0	(ASCII-Coding: "CD1" for
CD01	0111 1100 0000 0011 0011 0001 0100 0100 0100 0011	μS/cm 10e0	(ASCII-Coding: "CD1" for
CD01	0111 1100 0000 0011 0011 0001 0100 0100 0100 0011 Control	μS/cm 10e0	(ASCII-Coding: "CD1" for Conductivity 1)
CL CL01	0111 1100 0000 0011 0011 0001 0100 0100 0100 0011 Control 1111 1101 0001 1111	μS/cm 10e0	(ASCII-Coding: "CD1" for Conductivity 1) disconnector control state
CL CL01 CL02	O111 1100 0000 0011 0011 0001 0100 0100	μS/cm 10e0	(ASCII-Coding: "CD1" for Conductivity 1) disconnector control state
CL CL01 CL02 CT	O111 1100 0000 0011 0011 0001 0100 0100	μS/cm 10e0	(ASCII-Coding: "CD1" for Conductivity 1) disconnector control state output state
CL CL01 CL02 CT CT01	O111 1100 0000 0011 0011 0001 0100 0100	μS/cm 10e0	(ASCII-Coding: "CD1" for Conductivity 1) disconnector control state output state
CL CL01 CL02 CT CT01 DI	O111 1100 0000 0011 0011 0001 0100 0100		(ASCII-Coding: "CD1" for Conductivity 1) disconnector control state output state compliance test Distance (ASCII-Coding: "mm"

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DI04	1111 1101 1111 1101 0010 0011	liters/mm²	Rainfall
DP	Duration/Period		
DP01	0111 01nn	s, min, h, d	actuality dur.
DP02	0111 00nn	s, min, h, d	average dur.
DP03	1111 1101 0011 110n	s, min	Period of nominal transmission
DP04	Valid only until OMS-S2 V4.1.2. => Replaced by YD03		
DP05	0010 01nn	s, min, h, d	Operation time (Duration of accumulation)
DP06	0010 00nn	s, min, h, d	On time (Duration since power up)
DT	Date / Time (Duration and Time stamp)		
DT01	0110 1101	Date+Time / Time	forward
DT02	0110 1100	Date	forward
DT03	1110 1101 0011 1100	Date+Time / Time	backward
DT04	1110 1100 0011 1100	Date	backward
DT05	1110 1100 0111 1110	Date; future date	forward
EC	Energy [Mcal]		
EC01	1111 1011 0000 11nn	Mcal 10e-1 10e2	forward
EC02	1111 1011 1000 11nn 0011 1100	Mcal 10e-1 10e2	backward
EJ	Energy [GJ]		
EJ01	0000 1nnn	GJ 10e-9 10e-2	forward
EJ02	1111 1011 0000 100n	GJ 10e-1 10e0	forward
EJ03	1111 1011 1000 100n 0111 1101	GJ 10e+2 10e+3	forward
EJ04	1000 1nnn 0011 1100	GJ 10e-9 10e-2	backward
EJ05	1111 1011 1000 100n 0011 1100	GJ 10e-1 10e+0	backward
EJ06	1111 1011 1000 100n 1111 1101 0011 1100	GJ 10e+2 10e+3	backward
ER	Electrical Resistance		
ER01	0111 1100 0000 0011 0110 1101 0110 1000 0100 1111	Ohm 10e+0	Resistance (ASCII-Coding: "Ohm")
EW	Energy [kWh]		
EW01	0000 0nnn	kWh 10e-6 10e+1	forward
EW02	1111 1011 0000 000n	kWh 10e+2 10e+3	forward
EW03	1111 1011 1000 000n 0111 1101	kWh 10e+5 10e+6	forward

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EW04 1000 0nn 0011 1100 kWh 10e-6 10e+1 backward	EW04	1000 0nnn 0011 1100	LAMB 400 C 400 L4	h a alguesta
EW06				
EW07				
EW08 1111 1011 1000 000n 1111 1100 0001 0000				
FR Frequency FR FR Frequency FR FR FR FR FR FR FR F				
FR Frequency [Hz] FR01 1111 1011 0010 11nn Hz 10e-3 10e0 mains power frequency HC Heat Cost Allocation unit HCA 10e+0 signed HCA 10e+0 unsigned 10e+0 unsigned 10e+0 unsigned 10e+0 unsigned 10e+0 unsigned 10e+0				abs.
Hz 10e-3 10e0 mains power frequency	EW09	1111 1011 1000 000n 1111 1101 1111 1100 0001 0000	kWh 10e+5 10e+6	abs.
HC Heat Cost Allocation unit	FR			
HC01	FR01	1111 1011 0010 11nn	Hz 10e-3 10e0	mains power frequency
HC02	НС	Heat Cost Allocation unit		
ID	HC01	0110 1110	HCA 10e+0	signed
ID01	HC02	1110 1110 1111 1100 0001 0001	HCA 10e+0	unsigned
ID02	ID	Identification Numbers		
ID03	ID01	0111 1000		Fabrication number
ID04	ID02	0111 1001		(Enhanced) identification
ID05	ID03	0111 1010		Primary address
ID06	ID04	1111 1101 0001 0001		Ownership number
ID09 ⁵² 1111 1101 0000 1001 Iist of sub device types See [prEN13757-3:2023] Table 20 IR Irradiance IR01 0111 1100 0000 0011 0011 0010 0100 1001 W/m² 10e0 radiant flux density (ASCII-Coding: "IR1" for Irradiance 1) IR02 1111 1101 1111 1101 0010 0001 W/m² 10e0 radiant flux density IR1" for Irradiance 1) IR02	ID05	1111 1101 0001 0000		Metering Point ID
ID10	ID06	1111 1101 0000 1000		Unique message idendtification
IR Irradiance IR01 0111 1100 0000 0011 0011 0001 0100 1001 0100 1001 W/m² 10e0 radiant flux density (ASCII-Coding: "IR1" for Irradiance 1)	ID09 ⁵²	1111 1101 0000 1001		Device type
IR01 0111 1100 0000 0011 0011 0001 0101 0010 0100 1001 W/m² 10e0 radiant flux density (ASCII-Coding: "IR1" for Irradiance 1)	ID10	1111 1101 1111 1101 0000 0001	list of sub device types	
IR02 1111 1101 1111 1101 0010 0001 W/m² 10e0 radiant flux density	IR	Irradiance		
LT Light LT01 0111 1100 0000 0010 0111 1000 0110 1100 Ix 10e0 Illuminance (ASCII-Coding: "lx" for lux) LT02 0111 1100 0000 0010 0110 0100 0110 0011 cd 10e0 Luminous intensity (ASCII-Coding: "cd" for candela) LT03 1111 1101 1111 1101 0001 1111 lx 10e0 Illuminance (lux)	IR01	0111 1100 0000 0011 0011 0001 0101 0010 0100 1001	W/m² 10e0	
LT01 0111 1100 0000 0010 0111 1000 0110 1100 lx 10e0 Illuminance (ASCII-Coding: "lx" for lux) LT02 0111 1100 0000 0010 0110 0100 0110 0011 cd 10e0 Luminous intensity (ASCII-Coding: "cd" for candela) LT03 1111 1101 1111 1101 0001 1111 lx 10e0 Illuminance (lux)	IR02	1111 1101 1111 1101 0010 0001	W/m ² 10e0	radiant flux density
LT02 0111 1100 0000 0010 0110 0100 0110 0011	LT	Light		
LT03 1111 1101 0001 1111 lx 10e0 Illuminance (lux)	LT01	0111 1100 0000 0010 0111 1000 0110 1100	lx 10e0	,
(vary	LT02	0111 1100 0000 0010 0110 0100 0110 0011	cd 10e0	
LT04 1111 1101 1111 1101 0010 0000 cd 10e0 Luminous intensity (candela)	LT03	1111 1101 1111 1101 0001 1111	lx 10e0	Illuminance (lux)
	LT04	1111 1101 1111 1101 0010 0000	cd 10e0	Luminous intensity (candela)

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MM Meter Management

IAIIAI	Meter Management		
MM01	1111 1101 0111 0001	dBm	Reception or noise level
MM02	1111 1101 0001 0111	binary	Error flags
MM03	1111 1101 1001 0111 0001 1101	binary	Error flags (standard)
MM04	1111 1101 0010 1010		Operator specific data
MM05	Valid only until OMS-S2 V4.1.2. => Replaced by YD07	-	-
MM06	1111 1101 0110 0001	Register index	Cumulation Counter
MM07	Valid only until OMS-S2 V4.4.2 => Replaced by not[MM02]		-
MM08	Valid only until OMS-S2 V4.4.2 => Replaced by not[MM03]		-
MM09	1111 1101 0111 0100	days	Remaining battery life time
MM10	1111 1101 1111 1101 0000 0010	month(s)	Remaining battery life time
MM11	Valid only until OMS-S2 V4.4.2 => Replaced by clr[MM03]		-
MM12	0111 1100 0000 0011 0101 0011 0100 0010 0010 0101	% percentage	Percentage of Battery Status (ASCII-Coding: "%BS")
MM13	0111 1100 0000 0011 0011 0001 0101 0011 0100 0100	binary	Status bits for pressure device see [OMS-S2], Annex C table C.5 (ASCII-Coding: "DS1" for Device Status1)
MM14	0111 1100 0000 0011 0011 0010 0101 0011 0100 0100	binary	Status bits for CO alarm devices, see [OMS-S2], Annex C table C.4 (ASCII-Coding: "DS2" for Device Status 2)
MM15	0111 1100 0000 0011 0011 0011 0101 0011 0100 0100	binary	Status bits for smoke alarm devices, see [OMS-S2], Annex C table C.3 (ASCII-Coding: "DS3" for Device Status 3)

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MM16	0111 1100 0000 0011	0011 0100 0101 0011 0100 0100	binary	Status bits for "Door/Window Contact Sensor" and "Locked Door/Window Detector", see [OMS-S2], Annex C table C.6 (ASCII-Coding: "DS4" for Device Status 4)
MM17	1111 1101 1111 1101	0000 0000	binary	Currently selected application
MM18	1111 1101 1111 1101	0011 1000	% percentage	Battery Status
MM19	1111 1101 1111 1101	0100 0000	binary	Status bits for pressure sensor see [prEN13757], table 20
MM20	1111 1101 1111 1101	0100 0010	binary	Status bits for CO alarm devices, see [prEN13757], table 20
MM21	1111 1101 1111 1101	0100 0001	binary	Status bits for smoke alarm devices, see [prEN13757], table 20
MM22	1111 1101 1111 1101	0100 0100	binary	Status bits for "Door/Window Contact Sensor" and "Locked Door/Window Detector", see [prEN13757], table 20
MM23	1111 1101 1111 1101	0100 0011	binary	Status bits for heat alarm device, see [prEN13757], table 20
ND	Noise			
ND01		0100 0001 0100 0010 0110 0100	dBA 10e0	Decibel A-weighting (ASCII-Coding: "dBA")
ND02	1111 1101 1111 1101	0010 0100	dBA 10e0	Decibel A-weighting
PD	Phase in Degree [°]			
PD01		1111 1100 0000 0101	° 10e-1	Volt_L1-L2
PD02		1111 1100 0000 0110	° 10e-1	Volt_L2-L3
PD03		1111 1100 0000 0111	° 10e-1	Volt_L3-L1
PD04		1111 1100 0000 0001	° 10e-1	Curr_L1
PD05		1111 1100 0000 0010	° 10e-1	Curr_L2
PD06	1111 1011 1010 1011	1111 1100 0000 0011	° 10e-1	Curr_L3

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PF	Pulse frequency		
PF01	Valid only until OMS-S2 V4.5.1 [PF01]		
PH	pH value		
PH01	0111 1100 0000 0010 0100 1000 0111 0000	pH 10e-1	potential of hydrogen (ASCII- Coding: "pH")
PH02	1111 1101 1111 1101 0010 0111	pH 10e-1	potential of hydrogen
PJ	Power [kJ/h]		
PJ01	0011 0nnn	kJ/h 10e-3 10e+4	forward
PR	Pressure [bar]		
PR01	1110 10nn 0011 1110	bar 10e-3 10e+0	pressure at base condition
PR02	1110 10nn 1111 0011 0011 1110	bar 10e-6 10e-3	pressure at base condition
PR03	0110 10nn	bar 10e-3 10e+0	pressure value
PR04	1110 10nn 0111 0011	bar 10e-6 10e-3	pressure value
PR05	1110 10nn 0100 1000	bar 10e-3 10e+0	pressure upper limit
PR06	1110 10nn 1100 1000 0111 0011	bar 10e-6 10e-3	pressure upper limit
PR07	1110 10nn 0100 0000	bar 10e-3 10e+0	pressure lower limit
PR08	1110 10nn 1100 0000 0111 0011	bar 10e-6 10e-3	pressure lower limit
PT	Particles		
PT01	0111 1100 0000 0011 0011 0001 0101 0100 0101 0000	μg/m³ 10e0	unspecific range (ASCII- Coding: "PT1")
PT02	0111 1100 0000 0011 0011 0010 0101 0100 0101 0000	μg/m³ 10e0	PM1 (ASCII-Coding: "PT2", Particles 2)
PT03	0111 1100 0000 0011 0011 0011 0101 0100 0101 0000	μg/m³ 10e0	PM2,5 (ASCII-Coding: "PT3", Particles 3)
PT04	0111 1100 0000 0011 0011 0100 0101 0100 0101 0000	μg/m³ 10e0	PM10 (ASCII-Coding: "PT4", Particles 4)
PT05	0111 1100 0000 0011 0011 0101 0101 0100 0101 0000	1/m³ 10e5	unspecific range (ASCII-Coding: "PT5", Particles 5)
PT06	0111 1100 0000 0011 0011 0110 0101 0100 0101 0000	1/m³ 10e5	PM1 (ASCII-Coding: "PT6", Particles 6)
PT07	0111 1100 0000 0011 0011 0111 0101 0100 0101 0000	1/m³ 10e5	PM2,5 (ASCII-Coding: "PT7", Particles 7)



PT10 PT11 PT12 PT13 PT14 PT15	1111 1101 1111 1101 0001 0111 1111 1101 1111 1101 0001 1000 1111 1101 1111 1101 0001 1010 1111 1101 1111 1101 0001 1010 1111 1101 1111 1101 0001 1100 1111 1101 1111 1101 0001 1101 1111 1101 1111 1101 0001 1101 1111 1101 1111 1101 0001 1110 Power [W] 0010 1nnn	μg/m³ 10e0 μg/m³ 10e0 μg/m³ 10e0 μg/m³ 10e5 1/m³ 10e5 1/m³ 10e5 1/m³ 10e5	unspecific range PM1 PM2,5 PM10 unspecific range PM1 PM2,5 PM10
PT11 PT12 PT13 PT14 PT15	1111 1101 1111 1101 0001 1001 1111 1101 1111 1101 0001 1010 1111 1101 1111 1101 0001 1011 1111 1101 1111 1101 0001 1100 1111 1101 1111 1101 0001 1101 1111 1101 1111 1101 0001 1110 Power [W]	μg/m³ 10e0 μg/m³ 10e0 1/m³ 10e5 1/m³ 10e5 1/m³ 10e5 1/m³ 10e5	PM2,5 PM10 unspecific range PM1 PM2,5
PT12 PT13 PT14 PT15	1111 1101 1111 1101 0001 1010 1111 1101 1111 1101 0001 1011 1111 1101 1111 1101 0001 1100 1111 1101 1111 1101 0001 1101 1111 1101 1111 1101 0001 1110 Power [W]	μg/m³ 10e0 1/m³ 10e5 1/m³ 10e5 1/m³ 10e5 1/m³ 10e5	PM10 unspecific range PM1 PM2,5
PT13 PT14 PT15	1111 1101 1111 1101 0001 1011 1111 1101 1111 1101 0001 1100 1111 1101 1111 1101 0001 1101 1111 1101 1111 1101 0001 1110 Power [W]	1/m³ 10e5 1/m³ 10e5 1/m³ 10e5 1/m³ 10e5	unspecific range PM1 PM2,5
PT14 PT15	1111 1101 1111 1101 0001 1100 1111 1101 1111 1101 0001 1101 1111 1101 1111 1101 0001 1110 Power [W]	1/m³ 10e5 1/m³ 10e5 1/m³ 10e5	PM1 PM2,5
PT15	1111 1101 1111 1101 0001 1101 1111 1101 1111 1101 0001 1110 Power [W]	1/m³ 10e5 1/m³ 10e5	PM2,5
	1111 1101 1111 1101 0001 1110 Power [W]	1/m³ 10e5	·
	Power [W]		PM10
PT16		W 100 2 100 4	
PW	0010 1nnn	W 100 2 100 14	
		W 10e-3 10e+4	forward
	1010 1nnn 0011 1100	W 10e-3 10e+4	backward
	1111 1011 0111 1nnn	W 10e-3 10e+4	cum. forward
	1111 1011 1111 1nnn 0011 1100	W 10e-3 10e+4	cum. backward
	1010 1nnn 1111 1100 0001 0000	kW 10e-6 10e+1	abs.
	1111 1011 1010 100n 1111 1100 0001 0000	kW 10e+2 10e+3	abs.
	1010 1nnn 1111 1100 0000 1100	kW 10e-6 10e+1	delta
PW10	1111 1011 1010 100n 1111 1100 0000 1100	kW 10e+2 10e+3	delta
RE	Reactive Energy [kvarh]		
RE01	1111 1011 0000 001n	kvarh 10e0 10e+1	forward
	1111 1011 1000 001n 0111 0nnn	kvarh 10e-6 10e+2	forward
	1111 1011 1000 001n 0011 1100	kvarh 10e0 10e+1	backward
RE04	1111 1011 1000 001n 1111 0nnn 0011 1100	kvarh 10e-6 10e+2	backward
RH	Relative Humidity [%]		
RH01	1111 1011 0001 101n	% 10e-01 10e0	relative humidity
RH02	0111 1100 0000 0011 0011 0010 0100 1000 0101 0010	% 10e0	Moisture Level (ASCII-Coding: "RH2")
RH03	1111 1101 1111 1101 0011 1110	% 10e0	Moisture Level
RP	Reactive Power [kvar]		
RP01	1111 1011 0001 01nn	kvar 10e-3 10e+0	forward
RP02	1111 1011 1001 01nn 0011 1100	kvar 10e-3 10e+0	backward
ТВ	Turbidity		

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TB01	0111 1100 0000 0011 0101 0101 0100 1110 0100 0110	FNU 10e0	Formazin Nephelometric Units (ASCII-Coding: "FNU")
TB02	1111 1101 1111 1101 0010 0101	FNU 10e0	Formazin Nephelometric Units
TC	Temperature [°C]		
TC01	0101 10nn	°C 10e-3 10e+0	flow
TC02	0101 11nn	°C 10e-3 10e+0	return
TC03	1101 10nn 0011 1110	°C 10e-3 10e+0	base condition
TC04	0110 01nn	°C 10e-3 10e+0	external temperature
TC05	1111 1011 0111 01nn	°C 10e-3 10e+0	Temperature Limit
TS	Tension		
TS01	0111 1100 0000 0010 0100 1101 0100 1110	Nm/m²	tension of surfaces in Newton Meters (ASCII-Coding: "NM")
VC	VOC Content		
VC01	0111 1100 0000 0011 0011 0001 0100 0011 0101 0110	ppb 10e0	(ASCII-Coding: "VC1" for VOC Content 1)
VC02	0111 1100 0000 0011 0011 0010 0100 0011 0101 0110	μg/m³ 10e0	(ASCII-Coding: "VC2" for VOC Content 2)
VC03	1111 1101 1111 1101 0001 010n	ppb 10e0 10e+1	Volatile Organic Compounds
VC04	1111 1101 1111 1101 0001 0110	μg/m³ 10e0	Volatile Organic Compounds
VF	Volume Flow [m³ / h]		
VF01	0011 1nnn	m³/h 10e-6 10e+1	normal / temp. Converted ⁵⁰
VF02	1011 1nnn 0011 1010	m³/h 10e-6 10e+1	meas. condition
VF03	1011 1nnn 0011 1110	m³/h 10e-6 10e+1	base condition
VM	Volume [m³]		
VM01	0001 0nnn	m³ 10e-6 10e+1	normal / temp. Converted ⁵⁰
VM02	1001 0nnn 0111 1101	m³ 10e-3 10e+4	normal / temp. Converted ⁵⁰
VM03	1001 0nnn 0011 1010	m³ 10e-6 10e+1	meas. condition
VM04	1001 0nnn 1111 1101 0011 1010	m³ 10e-3 10e+4	meas. condition
VM05	1001 0nnn 0011 1110	m³ 10e-6 10e+1	base condition

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VM06	1001 0nnn 1111 1101 0011 1110	m³ 10e-3 10e+4	base condition
VM07	1001 0nnn 0011 1011	m³ 10e-6 10e+1	forward volume
VM08	1001 0nnn 1111 1101 0011 1011	m ³ 10e-3 10e+4	forward volume
VM09	1001 0nnn 0011 1100	m³ 10e-6 10e+1	backward volume
VM10	1001 0nnn 1111 1101 0011 1100	m ³ 10e-3 10e+4	backward volume
VV	Voltage [V]		
VV01	1111 1101 1100 nnnn 1111 1100 0000 0001	V 10e-9 10e6	Volt_L1
VV02	1111 1101 1100 nnnn 1111 1100 0000 0010	V 10e-9 10e6	Volt_L2
VV03	1111 1101 1100 nnnn 1111 1100 0000 0011	V 10e-9 10e6	Volt_L3
WS	Wind speed		
WS01	0111 1100 0000 0011 0011 0001 0101 0011 0101 0111	m/s 10e0	(ASCII-Coding: "WS1" for Wind Speed)
WS02	1111 1101 1111 1101 0010 0010	m/s 10e0	Wind Speed
YD	Descriptor		
YD01	1111 1101 0010 0011		Descriptor tariff and subunit
YD02	1111 1101 0010 01nn	s, min, h, d	Storage interval
YD03	1111 1101 0010 1000	month	Storage interval
YD04	1111 1101 0010 1001	years	Storage interval
YD05	1111 1101 0010 0000		First storage no. for cyclic storage
YD06	1111 1101 0010 0001		Last storage no. for cyclic storage
YD07	1111 1101 0010 0010		Size of storage block

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