

elvace

CM^eSERIES
The everything meter.

Report Templates Description Template 3109

1050006-CMe2100 GSM/GPRS M-Bus Master
1050012-CMi2110A GSM/GPRS M-Bus Master
1050027-CMi2120E GSM/GPRS M-Bus Master
1050030-CMi2130A GSM/GPRS M-Bus Master

HTTP value report extended plus – post per
device - plain

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1 Document notes

All information in this manual, including product data, diagrams, charts, etc. represents information on products at the time of publication, and is subject to change without prior notice due to product improvements or other reasons. It is therefore recommended that customers contact Elvaco AB for the latest product information before purchasing a CMe/CMi Series product.

The documentation and product are provided on an “as is” basis only and may contain deficiencies or inadequacies. Elvaco AB takes no responsibility for damages, liabilities or other losses by using this product.

1.1 Copyright and Trademark

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CMe/CMi Series is a trademark of Elvaco AB, Sweden.

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2 Using this document

2.1 Purpose and Audience

This document describes the contents of the report information created from report template 3108. Use this document together with Report Template Reference Information for complete understanding of this report template contents.

For customer specific templates, please contact Elvaco AB.

2.2 Models

CMe2100, CMi2110, CMi2120, CMi2130, CMe3100

2.3 Additional and updated information

Latest documentation version is available on Elvaco web site at <http://www.elvaco.com>.

3 Report format

This report contains value data in decoded format, i.e. the data is sent in clear text and no knowledge of how to decode M-Bus information is needed. This report sends a meter data report file to an HTTP server. On execution of this report, one file per device with values will be sent to the HTTP Server. HTTP method used is HTTP POST.

3.1 HTTP Headers

3.1.1 User-Agent

To identify the product, the HTTP header User-Agent is filled with the following information:

```
User-Agent=TC65i/<imei> Profile/IMP-NG Configuration/CLDC-1.1
Model/<model> Hardware/<hw> Firmware/<fw> Application/<sw>
Serial/<serial>
```

Parameter description

<imei>
15 digit product module IMEI number
<model>
Product model, i.e. CMe1000, CMe1100, CMe2000, CMe2100
<hw>
Product hardware version, i.e R4A
<fw>
Product module firmware version, i.e. 01.100
<sw>
Product software version, i.e. 1.1.0
<serial>
10 digit product serial number, i.e. 0006000000

Depending on product type, some of the headers may be left out or new headers may be added. The <serial> field is always present and should be used for product identification.

3.1.2 Filename

Filename header is filled with a name which can be useful when storing the body contents in a file on a server share.

Filename is in the following format:

```
<serial-number>_valuereport_<time>_<report-id>.csv.
```

Example of a file sent from a product with serial number 0006123456 at 2010-09-01 01:00:00:
0006123456_valuereport_20100901010000_3109.csv.

3.2 Body contents

The body contains one column header line, followed by one or more value data lines. Each column header line describes the contents of the following value data lines. Please see Table 1 for column header descriptions.

Column index (0 = first column)	Column contents	Description
0	#	Fixed field indicating column header information line.
1	serial-number	Fixed field. Data row contains the CMe/CMi product serial number.
2	device-identification	Fixed field. Data row contains the M-Bus device secondary address.
3	created	Fixed field. Data row contains the date/time of the data row.
4	value-data-count	Fixed field. Data row contains the M-Bus telegram number. 0 = first telegram, 1 = second telegram etc.
5	manufacturer	Fixed field. Data row contains the M-Bus device three letter manufacturer code.
6	version	Fixed field. Data row contains the M-Bus device version.
7	device-type	Fixed field. Data row contains the M-Bus device type as string.
8	access-number	Fixed field. Data row contains the M-Bus device access number which is increased by one on every request to the meter. This field can be used to verify that no other M-Bus master has read the device.
9	status	Fixed field. Data row contains the M-Bus device status field.
10	signature	Fixed field. Data row contains the the M-Bus device signature field.
11..n	<value-description>	<p>Value description information. This information describes the exact contents of this column. Depending on meter, one or more value description columns are added.</p> <p>The value description contains 6 fields delimited with comma. These fields in gives the exact meaning of the contents of this column.</p> <p>The 6 fields are:</p> <ul style="list-style-type: none"> Description Unit Function Tariff Sub unit

		<p>Storage number</p> <p>Please see Report Template Reference Information for complete description of these fields.</p>
<p>Example of first line in body with column headers</p>		
<pre>#serial-number;device-identification;created;value-data-count;manufacturer;version;device-type;access-number;status;signature;fabrication-no,,inst-value,0,0,0;act-duration,minute(s),inst-value,0,0,0;rf-level,dBm,inst-value,0,0,0;manufacturer-specific-ff-20,,inst-value,0,0,0;volume,m3,inst-value,0,0,0;volume,m3,inst-value,0,0,1</pre>		
<p>Example of value data lines</p>		
<pre>0012041178;63666289;2015-06-01 00:00:00;00;KAM;27;cold water;156;0;0;64000535;1;-88;0;22,700;19,731 0012041178;63666289;2015-06-01 01:00:00;00;KAM;27;cold water;157;0;0;64000535;1;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 02:00:00;00;KAM;27;cold water;158;0;0;64000535;1;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 03:00:00;00;KAM;27;cold water;159;0;0;64000535;1;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 04:00:00;00;KAM;27;cold water;160;0;0;64000535;0;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 05:00:00;00;KAM;27;cold water;161;0;0;64000535;0;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 06:00:00;00;KAM;27;cold water;162;0;0;64000535;1;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 07:00:00;00;KAM;27;cold water;163;0;0;64000535;1;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 08:00:00;00;KAM;27;cold water;164;0;0;64000535;1;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 09:00:00;00;KAM;27;cold water;165;0;0;64000535;1;-88;0;22,700;22,700 0012041178;63666289;2015-06-01 10:00:00;00;KAM;27;cold water;166;0;0;64000535;1;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 11:00:00;00;KAM;27;cold water;167;0;0;64000535;2;-90;0;22,700;22,700 0012041178;63666289;2015-06-01 12:00:00;00;KAM;27;cold water;168;0;0;64000535;0;-86;0;22,700;22,700 0012041178;63666289;2015-06-01 13:00:00;00;KAM;27;cold water;169;0;0;64000535;0;-86;0;22,700;22,700 0012041178;63666289;2015-06-01 14:00:00;00;KAM;27;cold water;170;0;0;64000535;0;-88;0;22,700;22,700 0012041178;63666289;2015-06-01 15:00:00;00;KAM;27;cold water;171;0;0;64000535;1;-88;0;22,700;22,700 0012041178;63666289;2015-06-01 16:00:00;00;KAM;27;cold water;172;0;0;64000535;1;-88;0;22,700;22,700 0012041178;63666289;2015-06-01 17:00:00;00;KAM;27;cold water;173;0;0;64000535;1;-88;0;22,700;22,700 0012041178;63666289;2015-06-01 18:00:00;00;KAM;27;cold water;174;0;0;64000535;1;-86;0;22,700;22,700</pre>		

```

0012041178;63666289;2015-06-01 19:00:00;00;KAM;27;cold
water;175;0;0;64000535;2;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 20:00:00;00;KAM;27;cold
water;176;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-01 21:00:00;00;KAM;27;cold
water;177;0;0;64000535;0;-84;0;22,700;22,700
0012041178;63666289;2015-06-01 22:00:00;00;KAM;27;cold
water;178;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-01 23:00:00;00;KAM;27;cold
water;179;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 00:00:00;00;KAM;27;cold
water;180;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 01:00:00;00;KAM;27;cold
water;181;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 02:00:00;00;KAM;27;cold
water;182;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 03:00:00;00;KAM;27;cold
water;183;0;0;64000535;2;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 04:00:00;00;KAM;27;cold
water;184;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 05:00:00;00;KAM;27;cold
water;185;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 06:00:00;00;KAM;27;cold
water;186;0;0;64000535;0;-88;0;22,700;22,700
0012041178;63666289;2015-06-02 07:00:00;00;KAM;27;cold
water;187;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 08:00:00;00;KAM;27;cold
water;188;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 09:00:00;00;KAM;27;cold
water;189;0;0;64000535;1;-84;0;22,700;22,700

```

Example of body with all contents

```

#serial-number;device-identification;created;value-data-
count;manufacturer;version;device-type;access-
number;status;signature;fabrication-no,,inst-value,0,0,0;act-
duration,minute(s),inst-value,0,0,0;rf-level,dBm,inst-
value,0,0,0;manufacturer-specific-ff-20,,inst-
value,0,0,0;volume,m3,inst-value,0,0,0;volume,m3,inst-value,0,0,1
0012041178;63666289;2015-06-01 00:00:00;00;KAM;27;cold
water;156;0;0;64000535;1;-88;0;22,700;19,731
0012041178;63666289;2015-06-01 01:00:00;00;KAM;27;cold
water;157;0;0;64000535;1;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 02:00:00;00;KAM;27;cold
water;158;0;0;64000535;1;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 03:00:00;00;KAM;27;cold
water;159;0;0;64000535;1;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 04:00:00;00;KAM;27;cold
water;160;0;0;64000535;0;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 05:00:00;00;KAM;27;cold
water;161;0;0;64000535;0;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 06:00:00;00;KAM;27;cold
water;162;0;0;64000535;1;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 07:00:00;00;KAM;27;cold

```


water;163;0;0;64000535;1;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 08:00:00;00;KAM;27;cold
water;164;0;0;64000535;1;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 09:00:00;00;KAM;27;cold
water;165;0;0;64000535;1;-88;0;22,700;22,700
0012041178;63666289;2015-06-01 10:00:00;00;KAM;27;cold
water;166;0;0;64000535;1;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 11:00:00;00;KAM;27;cold
water;167;0;0;64000535;2;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 12:00:00;00;KAM;27;cold
water;168;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-01 13:00:00;00;KAM;27;cold
water;169;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-01 14:00:00;00;KAM;27;cold
water;170;0;0;64000535;0;-88;0;22,700;22,700
0012041178;63666289;2015-06-01 15:00:00;00;KAM;27;cold
water;171;0;0;64000535;1;-88;0;22,700;22,700
0012041178;63666289;2015-06-01 16:00:00;00;KAM;27;cold
water;172;0;0;64000535;1;-88;0;22,700;22,700
0012041178;63666289;2015-06-01 17:00:00;00;KAM;27;cold
water;173;0;0;64000535;1;-88;0;22,700;22,700
0012041178;63666289;2015-06-01 18:00:00;00;KAM;27;cold
water;174;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-01 19:00:00;00;KAM;27;cold
water;175;0;0;64000535;2;-90;0;22,700;22,700
0012041178;63666289;2015-06-01 20:00:00;00;KAM;27;cold
water;176;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-01 21:00:00;00;KAM;27;cold
water;177;0;0;64000535;0;-84;0;22,700;22,700
0012041178;63666289;2015-06-01 22:00:00;00;KAM;27;cold
water;178;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-01 23:00:00;00;KAM;27;cold
water;179;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 00:00:00;00;KAM;27;cold
water;180;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 01:00:00;00;KAM;27;cold
water;181;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 02:00:00;00;KAM;27;cold
water;182;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 03:00:00;00;KAM;27;cold
water;183;0;0;64000535;2;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 04:00:00;00;KAM;27;cold
water;184;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 05:00:00;00;KAM;27;cold
water;185;0;0;64000535;0;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 06:00:00;00;KAM;27;cold
water;186;0;0;64000535;0;-88;0;22,700;22,700
0012041178;63666289;2015-06-02 07:00:00;00;KAM;27;cold
water;187;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 08:00:00;00;KAM;27;cold
water;188;0;0;64000535;1;-86;0;22,700;22,700
0012041178;63666289;2015-06-02 09:00:00;00;KAM;27;cold

```
water;189;0;0;64000535;1;-84;0;22,700;22,700
```

Table 1 Body contents and example file

3.3 Definitions

Type	Value	Description
Column delimiter	Semi-colon “;”	The field separator
Decimal point delimiter	Default comma “,”. Can be changed with configuration key <code>common.product.culture.decimalseparator</code>	Decimal separator character
End of line character(s)	CRLF (0x0D0A)	End of every line, before starting a new line.

Table 2 Definitions

4 Document History

Version	Date	Description	Author
1.0	2015-06-02	First release	David Vonasek

4.1 Document software and hardware appliance

Type	Version	Date	Comments
Hardware	-	-	-
Software	>2.5.0	2015-03	

5 References

5.1 References

- [1] CMe Series User's Manual
- [2] CMi2110 User's Manual
- [3] CMi2120 User's Manual
- [4] CMi2130 User's Manual
- [5] Report Template Description [n], where n is the report template id

5.2 Terms and Abbreviations

Abbreviation	Description

5.2.1 Number representation

Decimal numbers are represented as normal number, i.e. 10 (ten).

Hexadecimal numbers are represented with prefix 0x, i.e. 0x0A (ten)

Binary numbers are represented with prefix 0b, i.e. 0b00001010 (ten)