

# elvace

**CM***e***SERIES**  
*The everything meter.*

Report Templates  
Description Template  
**3101**

CMe2100, CMi2110, CMi2120, CMi2130

HTTP value report- single file - plain

# Contents

<b>CONTENTS .....</b>	<b>2</b>
<b>1 DOCUMENT NOTES .....</b>	<b>3</b>
1.1 COPYRIGHT AND TRADEMARK.....	3
1.2 CONTACTS.....	3
<b>2 USING THIS DOCUMENT .....</b>	<b>4</b>
2.1 PURPOSE AND AUDIENCE .....	4
2.2 MODELS .....	4
2.3 ADDITIONAL AND UPDATED INFORMATION.....	4
<b>3 REPORT FORMAT .....</b>	<b>5</b>
3.1 HTTP HEADERS .....	5
3.1.1 <i>User-Agent</i> .....	5
3.1.2 <i>Filename</i> .....	5
3.2 BODY CONTENTS.....	6
3.3 DEFINITIONS .....	8
<b>4 DOCUMENT HISTORY .....</b>	<b>9</b>
4.1 DOCUMENT SOFTWARE AND HARDWARE APPLIANCE.....	9
<b>5 REFERENCES .....</b>	<b>10</b>
5.1 REFERENCES .....	10
5.2 TERMS AND ABBREVIATIONS .....	10
5.2.1 <i>Number representation</i> .....	10

# 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 3101. 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

### 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 body with values for all product connected meters will be sent to the HTTP Server. The 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

#### 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_3101.csv.
```

### 3.2 Body contents

The body contains one column header line for each device, 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. To distinguish column header lines and value data lines, look for "serial-number" at the beginning of each line.

Column index (0 = first column)	Column contents	Description
0	serial-number	Fixed field
1	device-identification	Fixed field
2	created	Fixed field
3	value-data-count	Fixed field
4..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 give the exact meaning of the contents of this column.</p> <p>The 6 fields are:</p> <ul style="list-style-type: none"> <li>Description</li> <li>Unit</li> <li>Function</li> <li>Tariff</li> <li>Sub unit</li> <li>Storage number</li> </ul> <p>Please see Report Template Reference Information for complete description of these fields.</p>

#### Example of first line in body with column headers

```
serial-number;device-identification;created;value-data-
count;parameter-set-id no-error,,inst-value,0,0,0;datetime no-
error,,inst-value,0,0,0;on-time no-error,hour(s),inst-
value,0,0,0;energy no-error,Wh,inst-value,1,0,0;energy no-
error,Wh,inst-value,2,0,0;energy no-error,Wh,inst-value,1,2,0;energy
no-error,Wh,inst-value,2,2,0;manufacturer-specific,,inst-
value,0,0,0;power manufacturer-specific,W,inst-value,0,0,0;power
manufacturer-specific,W,inst-value,0,0,0;power manufacturer-
specific,W,inst-value,0,0,0;power manufacturer-specific,W,inst-
value,0,2,0;power manufacturer-specific,W,inst-value,0,2,0;power
manufacturer-specific,W,inst-value,0,2,0;power no-error,W,max-
value,1,0,0;power no-error,W,max-value,2,0,0;voltage manufacturer-
specific,V,inst-value,0,0,0;voltage manufacturer-specific,V,inst-
value,0,0,0;voltage manufacturer-specific,V,inst-value,0,0,0;current
manufacturer-specific,A,inst-value,0,0,0;current manufacturer-
specific,A,inst-value,0,0,0;current manufacturer-specific,A,inst-
```

```
value,0,0,0;manufacturer-specific,,inst-value,0,0,0;manufacturer-
specific,,inst-value,0,0,0;manufacturer-specific,,inst-
value,0,0,0;manufacturer-specific,,inst-value,0,0,0;reset-counter no-
error,,inst-value,0,0,0;error-flags-dev-spec no-error,,inst-
value,0,0,0;datetime no-error,,inst-value,0,0,0
```

**Example of value data lines**

```
06000885;00902947;2010-04-19
00:00:00;00;1048543;353506619;420;104730;50;1420;80;1;0;0;0;0;0;5550
;220;239;239;239;0,00;0,00;0,00;498;0;0;0;9;0;352718348
06000885;00902947;2010-04-19
01:00:00;00;1048543;353506875;421;104730;50;1420;80;1;0;0;0;0;0;5550
;220;238;238;238;0,00;0,00;0,00;497;0;0;0;9;0;352718348
06000885;00902947;2010-04-19
02:00:00;00;1048543;353507131;422;104730;50;1420;80;1;0;0;0;0;0;5550
;220;240;240;240;0,00;0,00;0,00;497;0;0;0;9;0;352718348
06000885;00902947;2010-04-19
03:00:00;00;1048543;353566779;423;104730;50;1420;80;1;0;0;0;0;0;5550
;220;242;242;242;0,00;0,00;0,00;498;0;0;0;9;0;352718348
```

**Example of body with all contents**

```
serial-number;device-identification;created;value-data-
count;parameter-set-id no-error,,inst-value,0,0,0;datetime no-
error,,inst-value,0,0,0;on-time no-error,hour(s),inst-
value,0,0,0;energy no-error,Wh,inst-value,1,0,0;energy no-
error,Wh,inst-value,2,0,0;energy no-error,Wh,inst-value,1,2,0;energy
no-error,Wh,inst-value,2,2,0;manufacturer-specific,,inst-
value,0,0,0;power manufacturer-specific,W,inst-value,0,0,0;power
manufacturer-specific,W,inst-value,0,0,0;power manufacturer-
specific,W,inst-value,0,0,0;power manufacturer-specific,W,inst-
value,0,2,0;power manufacturer-specific,W,inst-value,0,2,0;power
manufacturer-specific,W,inst-value,0,2,0;power no-error,W,max-
value,1,0,0;power no-error,W,max-value,2,0,0;voltage manufacturer-
specific,V,inst-value,0,0,0;voltage manufacturer-specific,V,inst-
value,0,0,0;voltage manufacturer-specific,V,inst-value,0,0,0;current
manufacturer-specific,A,inst-value,0,0,0;current manufacturer-
specific,A,inst-value,0,0,0;current manufacturer-specific,A,inst-
value,0,0,0;manufacturer-specific,,inst-value,0,0,0;manufacturer-
specific,,inst-value,0,0,0;manufacturer-specific,,inst-
value,0,0,0;manufacturer-specific,,inst-value,0,0,0;reset-counter no-
error,,inst-value,0,0,0;error-flags-dev-spec no-error,,inst-
value,0,0,0;datetime no-error,,inst-value,0,0,0
06000885;00902947;2010-04-19
00:00:00;00;1048543;353506619;420;104730;50;1420;80;1;0;0;0;0;0;5550
;220;239;239;239;0,00;0,00;0,00;498;0;0;0;9;0;352718348
06000885;00902947;2010-04-19
01:00:00;00;1048543;353506875;421;104730;50;1420;80;1;0;0;0;0;0;5550
;220;238;238;238;0,00;0,00;0,00;497;0;0;0;9;0;352718348
06000885;00902947;2010-04-19
02:00:00;00;1048543;353507131;422;104730;50;1420;80;1;0;0;0;0;0;5550
;220;240;240;240;0,00;0,00;0,00;497;0;0;0;9;0;352718348
06000885;00902947;2010-04-19
03:00:00;00;1048543;353566779;423;104730;50;1420;80;1;0;0;0;0;0;5550
;220;242;242;242;0,00;0,00;0,00;498;0;0;0;9;0;352718348
```

```

serial-number;device-identification;created;value-data-
count;parameter-set-id no-error,,inst-value,0,0,0;datetime no-
error,,inst-value,0,0,0;on-time no-error,hour(s),inst-
value,0,0,0;energy no-error,Wh,inst-value,1,0,0;energy no-
error,Wh,inst-value,2,0,0;energy no-error,Wh,inst-value,1,2,0;energy
no-error,Wh,inst-value,2,2,0;manufacturer-specific,,inst-
value,0,0,0;power manufacturer-specific,W,inst-value,0,0,0;power
manufacturer-specific,W,inst-value,0,0,0;power manufacturer-
specific,W,inst-value,0,0,0;power manufacturer-specific,W,inst-
value,0,2,0;power manufacturer-specific,W,inst-value,0,2,0;power
manufacturer-specific,W,inst-value,0,2,0;power no-error,W,max-
value,1,0,0;power no-error,W,max-value,2,0,0;voltage manufacturer-
specific,V,inst-value,0,0,0;voltage manufacturer-specific,V,inst-
value,0,0,0;voltage manufacturer-specific,V,inst-value,0,0,0;current
manufacturer-specific,A,inst-value,0,0,0;current manufacturer-
specific,A,inst-value,0,0,0;current manufacturer-specific,A,inst-
value,0,0,0;manufacturer-specific,,inst-value,0,0,0;manufacturer-
specific,,inst-value,0,0,0;manufacturer-specific,,inst-
value,0,0,0;manufacturer-specific,,inst-value,0,0,0;reset-counter no-
error,,inst-value,0,0,0;error-flags-dev-spec no-error,,inst-
value,0,0,0;datetime no-error,,inst-value,0,0,0
06000885;00902985;2010-04-19
00:00:00;00;1048543;353506619;420;104730;50;1420;80;1;0;0;0;0;0;5550
;220;239;239;239;0,00;0,00;0,00;498;0;0;0;9;0;352718348
06000885; 00902985;2010-04-19
01:00:00;00;1048543;353506875;421;104730;50;1420;80;1;0;0;0;0;0;5550
;220;238;238;238;0,00;0,00;0,00;497;0;0;0;9;0;352718348
06000885; 00902985;2010-04-19
02:00:00;00;1048543;353507131;422;104730;50;1420;80;1;0;0;0;0;0;5550
;220;240;240;240;0,00;0,00;0,00;497;0;0;0;9;0;352718348
06000885; 00902985;2010-04-19
03:00:00;00;1048543;353566779;423;104730;50;1420;80;1;0;0;0;0;0;5550
;220;242;242;242;0,00;0,00;0,00;498;0;0;0;9;0;352718348

```

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	2010-09-27	First release	David Vonasek

### 4.1 Document software and hardware appliance

Type	Version	Date	Comments
Hardware	-	-	-
Software	>1.1.5	2010-03	

## 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)