

Meter Reader Light

Software

Manual

Web Application

8 February 2021

V 1.10

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1 Introduction

This manual explains the operation of the web application **Meter Reader Light (MRL)**. The web application is launched with an Internet browser and includes a meter list with all the meter data that is necessary for a reading.

The following chapters cover the processes for importing meter lists, processing meter data and exchanging data with a mobile device.

1.1 General

We recommend the use of Mozilla Firefox or Google Chrome to ensure functionality.

The access data for the web portal will be communicated to the user by ZENNER International GmbH & Co. KG (referred to in the following as ZENNER) by e-mail following purchase of a licence.

1.2 Concept for mobile meter reading

First the customer and meter data is imported to the web application with all the information that is necessary for the recording.

This data is then transferred to an Android device via WLAN or mobile communications.

The meter readers record all the necessary meter data on site using the mobile device.

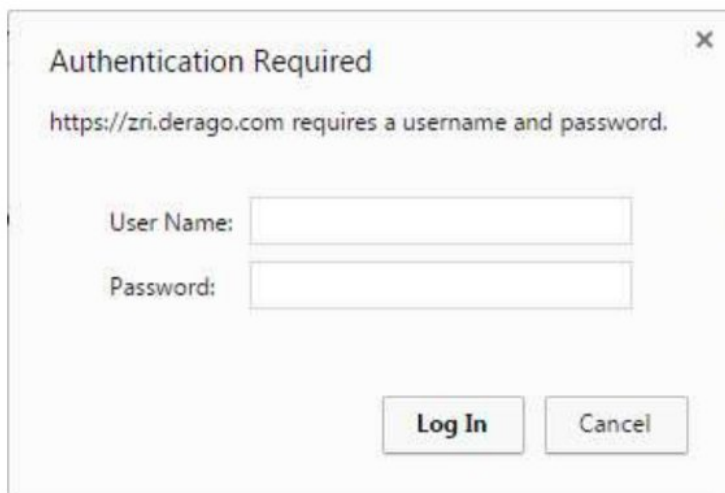
Synchronisation then takes place again between the mobile device and the web server. The reader data that is now on the service can be exported for other purposes.

2 Starting the web portal

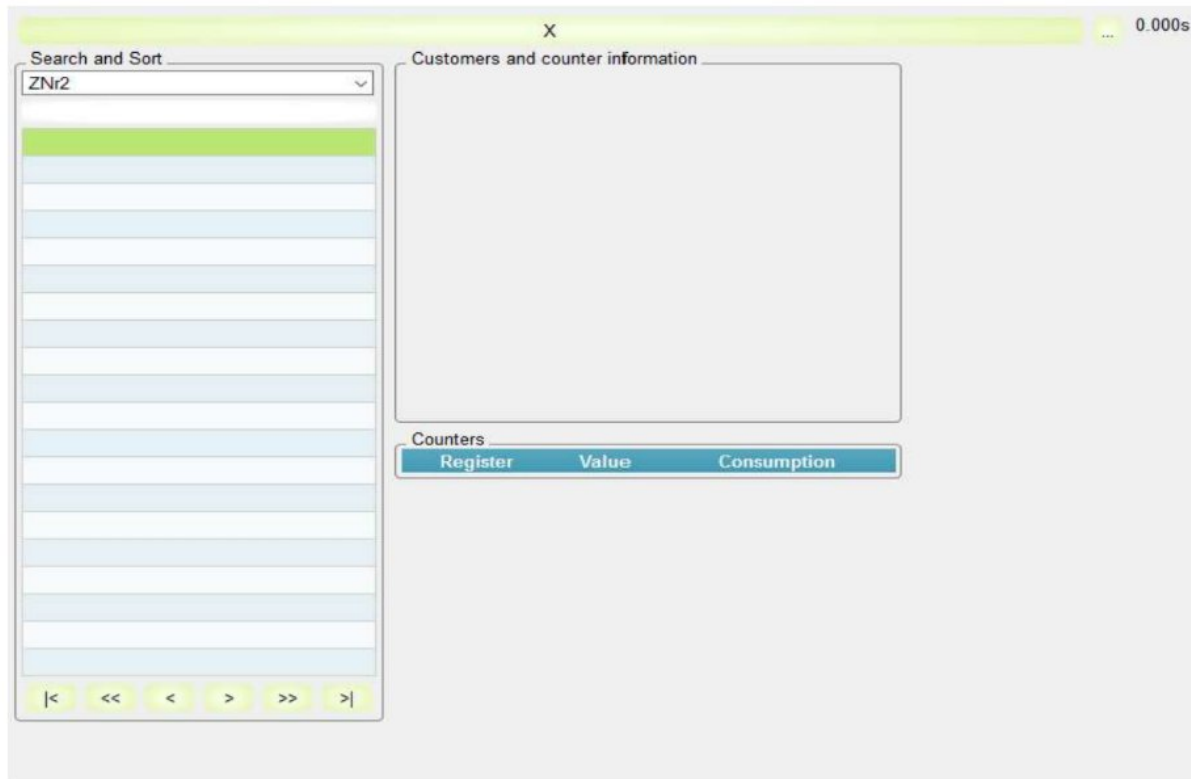
Start the Internet browser and enter the URL that ZENNER communicates with you into the address line:

URL: [https://zri.derago.com/ZRI/\[name\]/dMM/index.html](https://zri.derago.com/ZRI/[name]/dMM/index.html)

An authentication window will appear:

A screenshot of a web browser's authentication dialog box. The title bar says "Authentication Required" with a close button (X) in the top right corner. The main text reads "https://zri.derago.com requires a username and password." Below this, there are two input fields: "User Name:" and "Password:". At the bottom, there are two buttons: "Log In" and "Cancel".

Enter your access data and click on 'OK'.
You will be taken to the homepage:



The homepage is divided into three areas:

- 'Search and sort': Displays the meter list, search and sort function
- 'Customer and counter information': Displays the customer and meter information
- 'Counters': Displays the reading (value read) and the consumption

3 Importing customer and meter data

3.1 Creating the import file

It is possible to import customer and meter data into the portal using a csv file.

This csv file can be created with a text file creation programme (e.g. Notepad++, Wordpad, Text Editor) or Microsoft Excel.

The following fields can be included:

field name	description	example
znr	meter number	12345678
zpt	metering point	1
name1	last name	Doe
name2	first name	John
standort	location	bathroom
wohnung	flat number	123
strasse	street	Main Street
hausnr	house number	1
hausnr2	house number extension	A
plz	ZIP code	66666
ort	city	Capitol City
earth	medium	3 = Heat

zmodell	meter type	zelsius C5 ISF
anzzw	amount of registers used	2
znrmodul	radio module number (if different than meter number)	87654321
xkdnr	customer number	321
aart	kind of reading	6 = OMS radio
zw1typ	counter 1 type	0.2.0 = volume (m ³)
zw2typ	counter 2 type	0.0.0 = energy (MWh)
zw3typ	counter 1 type	0.0.1 = cooling energy (m ³)
x_zw1einheit	counter 1 type unit	m ³
x_zw2einheit	counter 1 type unit	MWh
x_zw3einheit	counter 1 type unit	MWh

medium:	1 = electricity
	2 = gas
	3 = heat
	4 = water
	5 = waste water
	9 = other

counter type:	0.0.0 = energy (MWh)		
	0.0.1 = cooling energy (MWh)		
	0.2.0 = volume (m ³)		
	0.25.0 = value heat cost allocator		
	0.623.1 = status smoke detector (Test alarm released)		
	0.623.2 = status smoke detector (Smoke alarm released)		
	0.623.3 = status smoke detector (Obstruction detection)		
	0.623.4 = status smoke detector (Surrounding area monitoring)		
	0.623.5 = status smoke detector (LED failure)		
	0.623.10 = status smoke detector (Battery end of life)		
	0.623.12 = status smoke detector (Smoke chamber pollution pre-warning)		
	0.623.13 = status smoke detector (Smoke chamber pollution warning)		
	0.623.14 = status smoke detector (Test button failure)		
	0.623.15 = status smoke detector (Acoustic alarm failure)		
	0.623.16 = status smoke detector (Removal detection)		

The file can contain all the fields or just some of the fields.

The following fields should be included as a minimum: ort; strasse; hausnr; znr*; eart*; aart*; zw1typ*; anzzw*; x_zw1einheit

Fields marked with "*" are mandatory fields and must be included in the import file.

All further fields can also be added to the web portal at a later date. However they are not absolutely necessary for wireless reading.

The field names must be given in the first line and the data are then given on the following lines.

Examples:

Import file for water meters with OMS radio

A	B	C	D	E	F	G	H	I	J	K	L
plz	ort	strasse	hausnr	name1	name2	znr	ear	aar	anzzw	zw1typ	x_zw1einheit
66666	Capital City	Main Street	1	Doe	John	12345678	4	6	1	0.2.0	m³

Import file for heat meters with OMS radio

A	B	C	D	E	F	G	H	I	J	K	L	M	N
plz	ort	strasse	hausnr	name1	name2	znr	ear	aar	anzzw	zw1typ	x_zw1einheit	zw2typ	x_zw2einheit
66666	Capital City	Main Street	1	Doe	John	12345678	3	6	2	0.0.0	MWh	0.2.0	m³

Import file for heat cost allocator with OMS radio

A	B	C	D	E	F	G	H	I	J	K
plz	ort	strasse	hausnr	name1	name2	znr	ear	aar	anzzw	zw1typ
66666	Capital City	Main Street	1	Doe	John	12345678	9	6	1	0.25.0

Import file for smoke detector with OMS radio

A	B	C	D	E	F	G	H	I	J	K	L	M	N
plz	ort	strasse	hausnr	name1	name2	znr	ear	aar	anzzw	zw1typ	zw2typ	zw3typ	zw4typ
66666	Capital City	Main Street	1	Doe	John	12345678	9	6	11	0.623.1	0.623.2	0.623.3	0.623.4

Important: The file must always be saved under the name **zfa-import.csv**. Files created with Excel must be saved in csv format. The semicolon (;) must be used as separator.

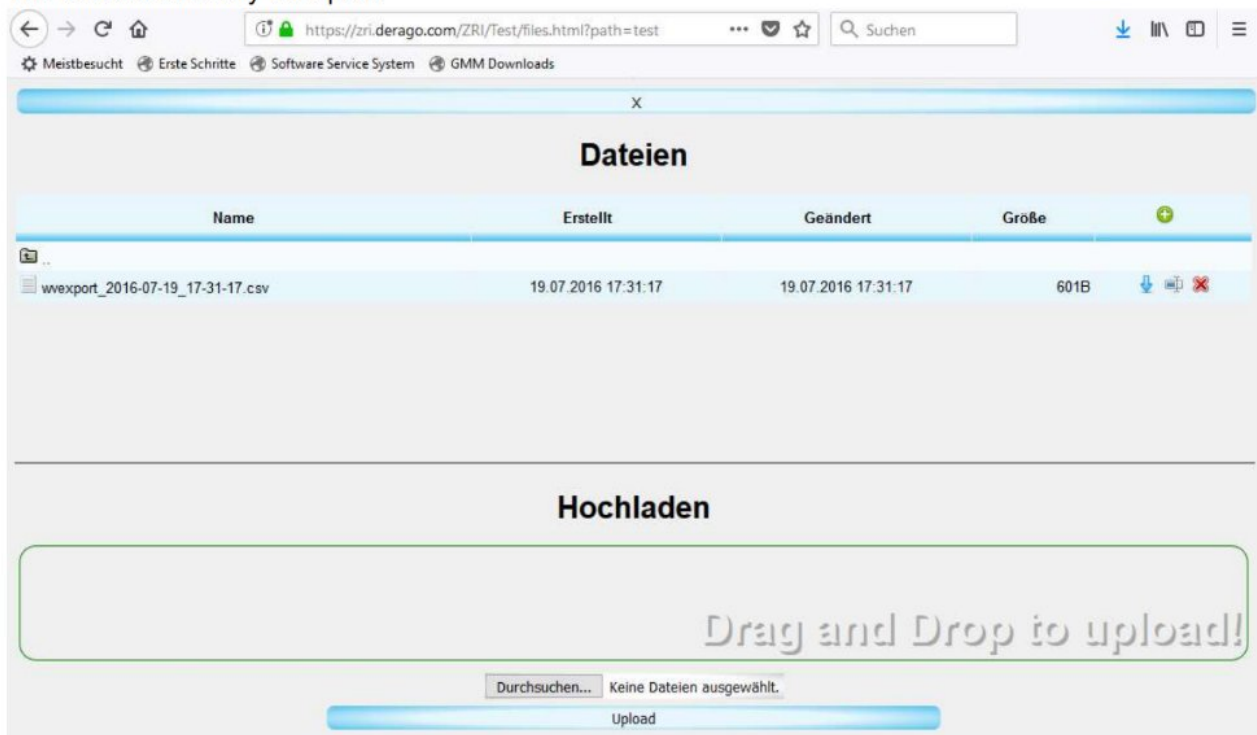
3.2 Uploading the import file to the server

Enter the following in the address line of the browser in order to upload the file to the server:

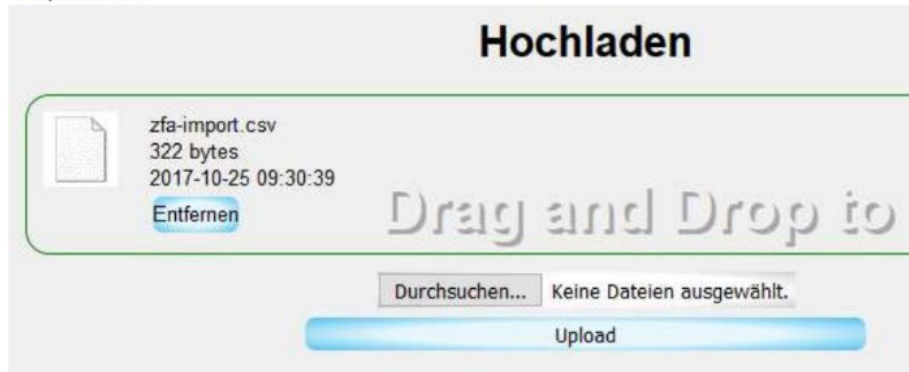
[https://zri.derago.com/ZRI/\[name\]/files.html](https://zri.derago.com/ZRI/[name]/files.html)

[name] = Name of the web portal

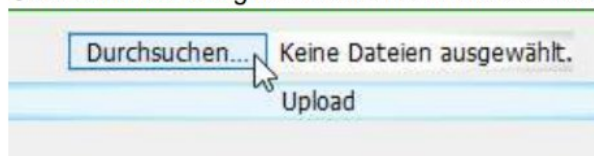
The transfer directory will open:



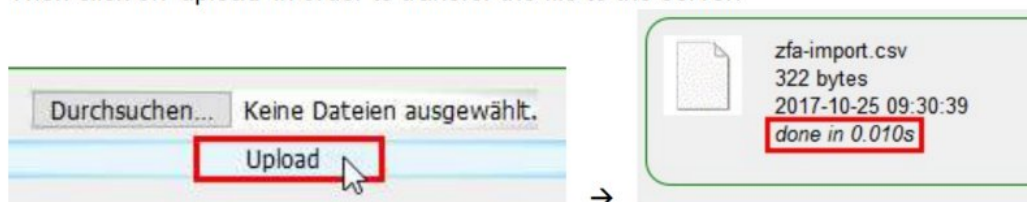
Drag&drop the csv file into the field bordered in green. The file name will be displayed as soon as you drop the file:



Or add the file using the 'Search...' button. Select the required file and click 'Open':



Then click on 'upload' in order to transfer the file to the server:



Note: When using Microsoft Internet Explorer it is possible that the file upload will not work. In such cases please use Mozilla Firefox or Google Chrome.

The file is available in the directory:

Dateien				
Name	Erstellt	Geändert	Größe	
...				
wwexport_2016-07-19_17-31-17.csv	19.07.2016 17:31:17	19.07.2016 17:31:17	601B	Download Copy Delete
zfa-import.csv	08.02.2018 15:44:05	08.02.2018 15:44:05	322B	Download Copy Delete

3.2.1 Editing files in the directory

Files within the directory can be edited with the buttons from the last column:

-  : Download file
-  : Rename file
-  : Delete file

 : create new folder; files can be relocated to the folder with Drag&Drop

3.3 Importing the meter data to the web application

The import onto the web application can begin once the data is available on the server.
Enter the following command into the address line on the browser in order to import the data into the portal:

[https://zri.derago.com/ZRI/\[name\]/d?grp=zfaimport&act=import](https://zri.derago.com/ZRI/[name]/d?grp=zfaimport&act=import)

The following window will appear:

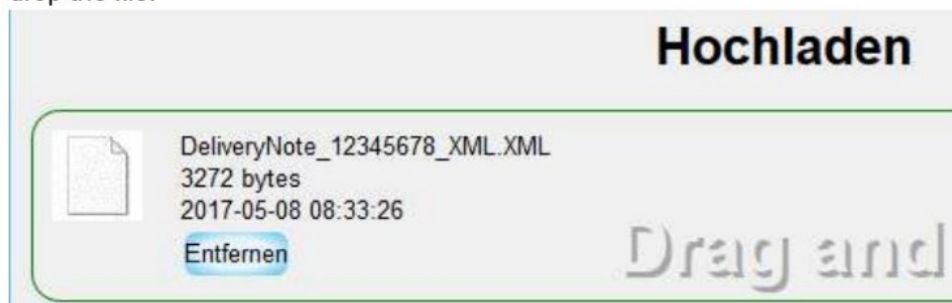


The meter data is now available on the portal.

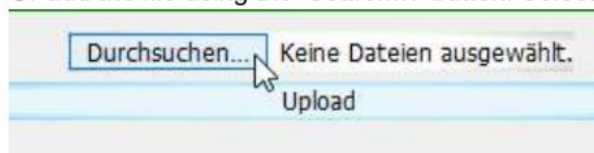
3.4 AES key (OMS key) import

For devices with device-specific AES key (OMS key), the device manufacturer provides a file with the keys in form of an electronic delivery note. ZENNER delivers the file as an xml file named 'DeliveryNote_*.XML.xml'.

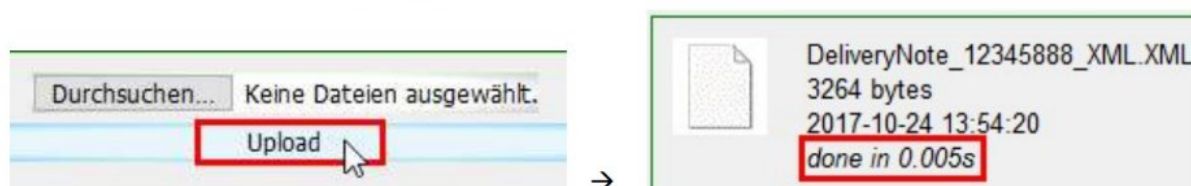
Drag&drop the xml file into the field bordered in green. The file name will be displayed as soon as you drop the file:



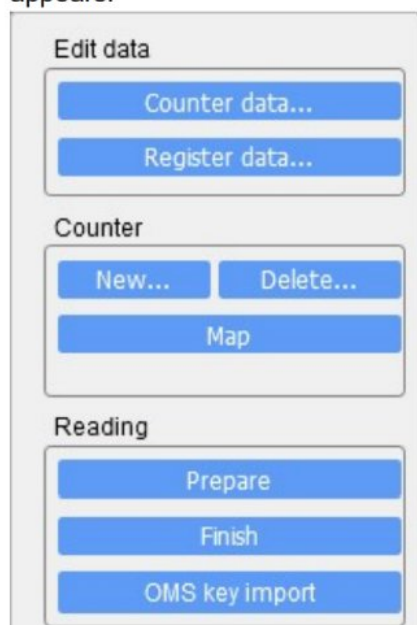
Or add the file using the 'Search...' button. Select the required file and click 'Open':



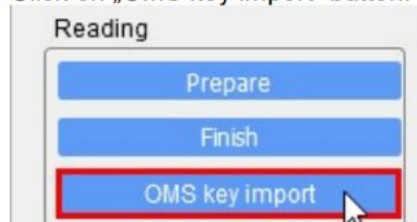
Then click on 'Upload' in order to transfer the file to the server:



The import onto the web application can begin once the data is available on the server. Go back to the main window and click on the “Options” button () in the upper left corner. The “Options” menu appears:



Click on „OMS key import“ button:



The keys are imported and the following message appears:

```

← → ↻ 🏠 https://zri.derago.com/ZRI/Test/kem.exe 📄 ⋮ 📌 🔍

Schlüssel-Import von derago
R433 (2017-12-11 18:49 +0100)

derago Standard * _OMS-Keys.csv
Kamstrup-Dateien *.zip.kem oder *.kem mit passwort in kem.pwd
Sensus * SensusRF-Keys.csv bzw. * _SensusRF-Keys.zip
Diehl * _Diehl-Keys.xml
Elster * _Elster-Keys.csv
Zenner DeliveryNote *_XML.xml
alle müssen im transfer abgelegt werden. (Mit Upload-Funktion in der Weboberfläche)

omsPath: C:\derago\ZRI\Test\Config\
transferPath: C:\derago\ZRI\Test\transfer\
vorhandene Schlüssel: 0

DeliveryNote_12345888_XML.XML ok

neu importierte Schlüssel: 2

alles erledigt.

```

4 Operating the web portal

4.1 Main window

The screenshot shows the Zenner web portal interface. At the top, there's a browser address bar with the URL <https://zri.derago.com/Zenner/dMM/index.html>. Below the address bar, there's a search bar with the text "ZNR2" and a dropdown menu. To the right of the search bar, there's a section titled "Customers and counter information" which displays details for a specific customer: KdNr: Müller, Thomas, Römerstadt 2, 66121 Saarbrücken. Below this, it shows ZNr: Wasser 49561001, Id: 20160205105906000001, and GPS: 49.2246641, 7.0267868. To the right of this section, there's an "Actions" panel with buttons for "Infrared", "Archive", and "Photos (1)". Below the customer information, there's a "Counters" section with a table showing the Register, Value, and Consumption for a specific counter. The table has one row with the values 0.2.0, 14,319, and 0,341. Below the table, there's a timestamp: 05.09.2016 15:59:00U. At the bottom of the page, there's a navigation bar with buttons for navigation and a page indicator showing "10 / 25".

Search and Sort
ZNR2

Customers and counter information

KdNr:
Müller, Thomas
Römerstadt 2

66121 Saarbrücken

ZNr: Wasser 49561001
Id: 20160205105906000001
GPS: 49.2246641, 7.0267868

Actions

Infrared
Archive
Photos (1)

Counters

Register	Value	Consumption
0.2.0	14,319	0,341

05.09.2016 15:59:00U

The main window is divided into 4 areas:

1. Searching and Sort
2. Customer and counter information
3. Counters
4. Actions

4.1.1 Searching and Sort

All the meters are displayed in the form of a list in this area.

You can use the selection field (at the top, 'ZNr2' in the example) to determine the criterion by which the meters should be listed. The list is then created either in alphabetical or in numerical ascending order.

The available criteria are as following:

Strasse	The street name of the meter location
Name1	Surname and first name of the customer
XKdNr	Client number
ZNr2	Meter number
Tour	Tour route from the billing system can be ignored
Zählpunkt	If supplied in the billing system can be ignored

Additional own input can also be entered into the input field directly below this in order to find names, meter numbers or streets more quickly. The system sorts immediately by each inputted letter or number.

You can scroll backwards and forwards in the list with the 'arrow' buttons (|< << < > >> >|) in the lower area.

4.1.2 Customer and counter information

All the existing customer and meter information on the meter selected in the meter list is displayed in this area.

Customers and counter information

KdNr:
Mustermann, Max
Römerstadt 6

66121 Saarbrücken

ZNr: Wasser 44001096
Id: 20131202121116845000
GPS: 49.2247307, 7.0275807

Click on  at the top left and then on the 'counter data' in order to be able to process the meter data

Options

Edit data

Counter data...

Register data...

X 0.003s

Customer Information Name/Company: Mustermann First Name: Max Apartment: Location: Street: Römerstadt HouseNr: 6 HouseNr2: Zip: 66121 Place: Saarbrücken Email:	Data readout module Radio module prefix: Radio module: Input from: Liters/Pulse: Offset: 0
Counter Information Counter Type: ETKD-M Energy: Water MatNr: Serial: 44001096 Registers: 1 Readout Method: OMS Transform ratio:	Others KdNr: Read-off Tour: Path: Client: Consumption points nr.: MID: Mon: 12 Template: Electricity general
Validity Valid from: Valid to:	Measuring Point Point of Delivery: Designation: Utilities identifier: GPS: 49.2247307; 7.0275807

Ahinweis

03.01.2017 13:11:31U

Save changes

All the information on the customer, meter, reading module, measuring point is stored in the meter data area plus some additional information.

The location of the measuring point is described in the '**customer information**' area. Entry of the e-mail address at this point is simultaneously a possible means of communication.

The '**meter information**' then specifies what is to be read, i.e. the meter type and energy type, any stored material numbers, meter numbers and the number of registers. The required reading protocol is also stored at this point with any necessary transform ratio.

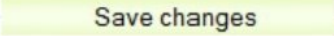
The '**data reading modules**' then determine which radio module number(s) need to be addressed, if it is a radio meter, in order to reach the meter.

Caution: For OMS (wireless M-bus) meters the radio meter number (Funk-ZNr.) must correspond to the water meter number as this is transmitted as standard as the radio address. Radio modules of telegram type C are an exception.

Different tours and walking routes can also be stored in the section '**others**', e.g. for special or emergency readings.

The unique metering point, its name and the municipal utility ID are entered under '**measuring point**'.

Click on the 'close' button () in the upper area of the window in order to close the meter data view.

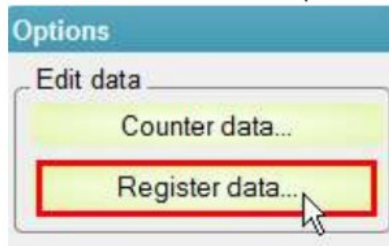
Click on the 'save changes' button () in the lower area of the window in order to save changes.

4.1.3 Counters

The read register, the meter value and the consumption are displayed in this area.

Counters		
Register	Value	Consumption
0.2.0	0,142	0,073

Click on  at the top left and then on register data in order to be able to process the 'register data'



X 0.016s

Counter Information
Counter Type: MTKDE Q3 = 4 190mm
Energy: 4
MatNr:
Serial: 14070001
Registers: 1

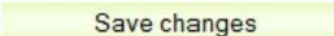
Register	Unit	OBIS export	Value	Consumption
0.2.0			0,324	0

21.09.2016 09:23:43U

Save changes

The registers can be given OBIS indicators here. Readings and consumption can then be seen in plain text form. The number of registers has already been stored in the 'counter data' area.

Click on the 'close' button () in the upper area of the window in order to close the register data view.

Click on the 'save changes' button () in the lower area of the window in order to save changes.

4.1.4 Actions

Additional existing information is noted in the **actions** area. The displays for **infrared**, **archive** and **photos** are only shown if relevant values actually exist in these areas, i.e. only if photos were actually taken.

If nothing appears under 'actions' then the user knows immediately that no further information is available on the meter. The number of available photos is also displayed under 'photos'.

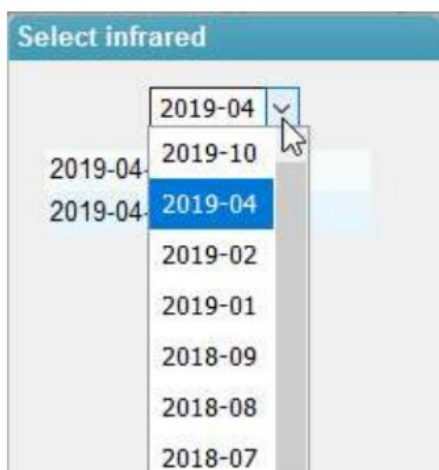


4.1.4.1 Infrared

If radio meters have been read electronically then the consumption data can be displayed here. A data set is saved with a time stamp for each reading:



The single records are combined for one month. A month can be selected via the dropdown menu:



The meter data (including raw data) can be displayed by clicking on the required record:

Select infrared

2019-04

2019-04-16 10:44:06
2019-04-12 09:08:17

Allgemeine Gerätedaten

Zählernummer	49561001
Auslesemodul	45011651
Kennung	ZRI01
Medium	W
Name	Müller
Name2	Thomas
Strasse	Römerstadt 2
Ort	66121 Saarbrücken
Auslesezeitpunkt	20191014 171754

Aktuelle Werte

Register	Wert	Einheit
0.2.0	48,521	m³
0.23.0	20191014	

Vorwerte

Vorwert	0.2.0*m³	0.23.0
0	48,521	20191014
1	48,134	
2	47,282	
3	46,551	
4	45,649	
5	45,07	
6	44,174	
7	43,309	
8	42,27	
9	41,396	
10	40,528	
11	39,813	
12	38,923	

Rohdaten

```

0C 13 21850400 0.2.0[0]
02 6C 6E2A 0.23.0[0]
8C01 13 34810400 0.2.0[2]
8204 6C 412B 0.23.0[8]
8C04 13 23890300 0.2.0[8]
8D04 931F 23 FBFE900800150700680800740800391000650800960800790500020900310700520800
02 FD17 0001
    
```

4.1.4.2 Archive

Archiving is carried out automatically as soon as the data export is carried out.

Archive Data

Creation date: 15.11.2016 14:23

Müller, Thomas
Römerstadt 2
66121 Saarbrücken
ZNr: 49561001

Meter Value	Consumption	Number of characters
0.2.0 16,135	0,261	

edited on: 04.11.2016 15:31

Reading

Date: 04.11.2016 15:31
Value 1: 16,135
Consumption 1: 0,261
Reader: Galaxy Note

Reading

Date: 26.10.2016 11:00
Value 1: 15,874
Consumption 1: 0,597
Reader: Galaxy Note

4.1.4.3 Photos

Photos can be taken and saved using the Android app 'MZE'. The photos are transferred automatically when the data is exchanged between the handheld and the server and are saved directly at the relevant meters.

4.2 Menu 'options'

All the options that are available in the web application can be called up via the 'options' button () in the top left corner of the window:

Edit data

Counter data...
Register data...

Counter

New...
Delete...
Map

Reading

Prepare
Finish
OMS key import

Others

Year statistics
Radio statistics
Statistics
Geocode
stat of estimated readings

Counter data...: see chapter 4.1.2

Register data...: see chapter 4.1.3

New...: Registering the data on a new meter. The following fields must be completed as a minimum:

Counter data: Street, HouseNo, Energy, Serial, Registers, Readout Method
Example: Water meter with OMS radio

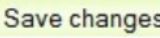
Counter Information

Counter Type: ETKDE
Energy: Water
MatNr:
Serial: 49560938
Registers: 1
Readout Method: OMS
Transform ratio:

Register data: Register, Unit
Example: Water meter with OMS radio

Counters	
Register	Unit
0.2.0	m ³

Click on the 'close' button () in the upper area of the window in order to close the meter data view.

Click on the 'save changes' button () in the lower area of the window in order to save changes.

Note: In addition to counter data, the register value must also be entered when a new meter is created:

menu *options* → *register data* → *register*

Counter Information		Counters	
Counter Type:		Register	Unit
Energy:	4	0.2.0	m ³
MatNr:		11.01.2017 08:32:42U	
Serial:	44000565		
Registers:	1		

For water meter: 0.2.0

For heat meter: 0.2.0 and 0.0.0

For heat cost allocator: 0.25.0

For smoke detector: in total 11 (AnzZW 11)

0.623.1

0.623.2

0.623.3

0.623.4

0.623.5

0.623.10

0.623.12

0.623.13

0.623.14

0.623.15

Delete...:

Deletes the meter selected in the meter list.

Delete meter
Do you really want to delete the record from the archive now?
If the counters are really deleted?
OK Cancel

Caution: All archived data are deleted from the meter. This makes later access to the data impossible.

Map:

If the address data are stored for the meter data (post code, town etc.) then the 'map' button can be used to display the position of the meter on a map (Google Maps).

Prepare:

Providing the data for a new reading period.

Finish:

Exporting the meter data from the server to the web portal and simultaneously into a csv file. Only the last read data is exported. If no current data is available then a file is created without data (size 0B). The file is located in the file directory. You can access the directory by entering the command 'files.html' in the address line of the browsers:

[https://zri.derago.com/ZRI/\[name\]/files.html](https://zri.derago.com/ZRI/[name]/files.html)

Dateien				
Name	Erstellt	Geändert	Größe	
..				
wwexport_2016-07-19_17-31-17.csv	19.07.2016 17:31:17	19.07.2016 17:31:17	601B	  
zfa-import.csv	08.02.2018 15:44:05	08.02.2018 15:44:05	322B	  

OMS key import:

You can download () , rename () and delete () the file.

Year statistics:

Import the AES keys into the database. See also chapter 3.1.
This button only appears if the meter has been read at least once.

Year statistics

Year:

Energy type:

Adjust... OK Cancel

Select the desired year and the energy type.

The read value must be provided when the annual statistics are called up for the first time. This value corresponds to the register type:

counter type	0.0.0 = MWh
	0.2.0 = m ³

Click on 'adjust' and enter the following:

For the water meter: 0.2.0*m3

For heat meters (district heating): 0.0.0*MWh, 0.2.0*m3

For heat cost allocator: 0.25.0

For smoke detector:

0.623.1*Test alarm released

0.623.2*Smoke alarm released

0.623.3*Obstruction detection

0.623.4*Surrounding area monitoring

0.623.5*LED failure

0.623.10*Battery end of life

0.623.12*Smoke chamber pollution pre-warning

0.623.13* Smoke chamber pollution warning

0.623.14*Test button failure

0.623.15*Acoustic alarm failure

Example heat meter:

Confirm the input with 'OK'.

If 'OK' is clicked again the data is exported in a csv file. This can be immediately opened or saved.

Radio statistics:

Display of warning messages supplied by the radio modules.

Caution: This statistic is only available after exporting the data (*options* → *export*).

Therefore, it's recommended to create and save the file after each export.

Only meters with a warning message are displayed. For more detailed descriptions of warning messages, please refer to the installation/operating instructions of the radio modules.

Statistics:

Display of general information and statistical values:

User name:

Name of the user currently registered

Version:

Version number for the web application currently being used

Number of active meters: Number of the meters contained in the database

Geocode:

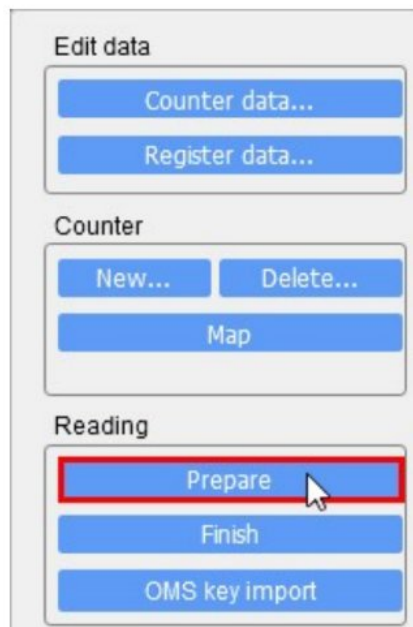
This serves the automatic determination of the geo-coordinates of the measurement points. The address data in the meter data must be stored correctly for this purpose. The geo-data is determined via a Google service:

```
Geocode by derago via Google services
V1 R48 (2016-08-25 21:24 +0200)
Alle Adressen laden...geladen: 6 in 0.016s
resolve address (1/6) : 'Marktplatz 1,89584 Ehingen,DE' Auflösung: premise
resolve address (2/6) : 'Shanghai Road 2,100000 Beijing,DE' coords: 38.9285,121.637
resolve address (3/6) : 'Vöröskereszt 10,1222 Budapest,DE' coords: 47.4146,19.0339
resolve address (4/6) : 'Vöröskereszt 8,1222 Budapest,DE' coords: 47.4146,19.0339
resolve address (5/6) : 'Römerstadt 6,66121 Saarbrücken,DE' coords: 49.2247,7.02765
resolve address (6/6) : 'Clarendon Road 103,LS2 9DF Leeds,DE' coords: 53.8075,-1.56044
Koordinaten speichern...gespeichert.
```

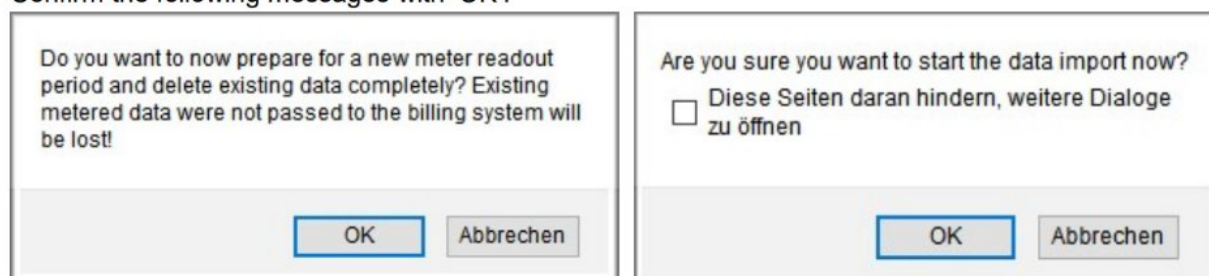
Estimated statistics: It is possible to register meters manually using the MZE app. If a reading is estimated then this meter can be marked as 'estimated'. Corresponding data on these meters can be exported as a csv file using the button 'estimated statistics'.

5 Preparing data for new readings

Click on the   button in the top left corner in order to prepare the data for reading and then click on 'Prepare':



Confirm the following messages with 'OK':



The import will then start. The message **Prozeß läuft noch, bitte etwas Geduld...** will be shown for several seconds. Once the transfer is successful you will see the message **Prozeß beendet. Vielen Dank für Ihre Geduld. Datenübernahme beendet.**

The data is now available for transfer to the handheld.

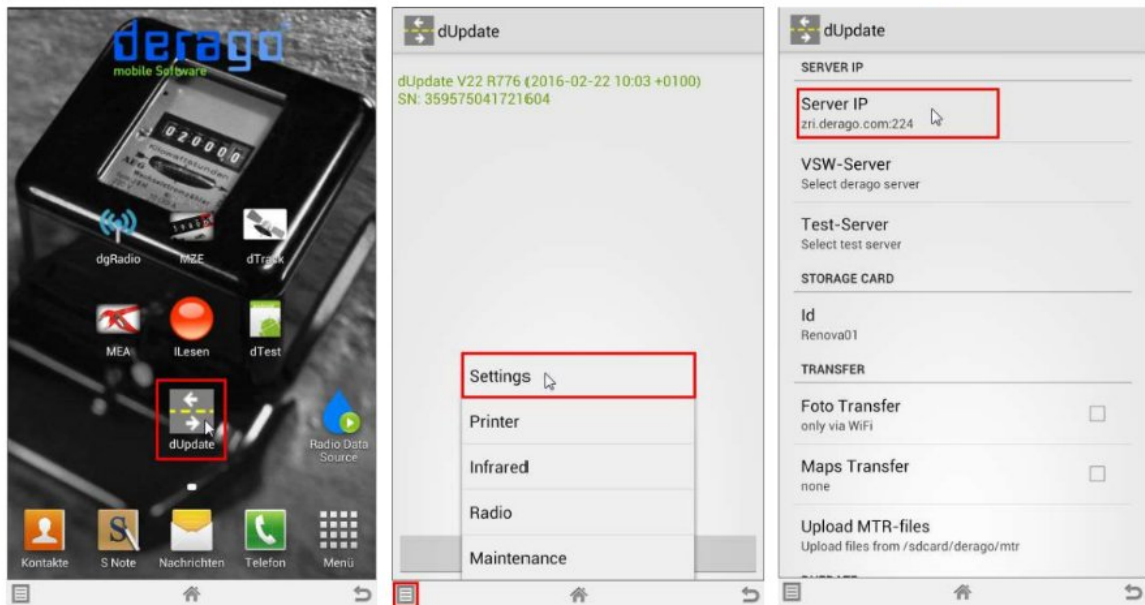
6 Data exchange web application (PC) – Android device

Data exchange between the web application and the mobile device is carried out fully automatically in both directions, so it is not important whether new customer data is transferred to the mobile device or registered meter data is transferred back to the server.

6.1 Settings in dUpdate

The following settings must be undertaken in dUpdate in order to download updates and meter data from the server:

Start 'dUpdate' → open menu → 'settings' → Enter 'server IP' <https://zri.derago.com>* → OK



* For devices with Android 4.x: <http://zri.derago.com>

6.2 Deleting legacy data before beginning the new reading

All the legacy data that are still on the handheld can be deleted before beginning the new reading:

Start 'dUpdate' → Open menu → 'maintenance' → 'delete data' → Enter PIN '1294' → OK



6.3 Data exchange with the Android device

During the data exchange updates will be downloaded and data transferred from and/or to the server:

Start 'dUpdate' → 'connect'



If an error message appears (at the top of the page, in green) please examine the following factors:

- Was the correct **IP address** for the **derago server** entered on the handheld?
Start 'dUpdate' → Menu button → 'settings' → Server address (zri.derago.com:224)
- Are the **date** and **time** set correctly on the device?
- Is an Internet connection established?

7 Upload reading data to the web portal

After executing a reading data have to be uploaded to the server and exported to the web portal. To upload the data, tab "Connect" in the app "dUpdate" (see also chapter 6.3).

Then click at the web portal on the  button in the upper left corner and then "Finish":

