

IZAR@MOBILE 2 ANDROID Software

User guide



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1 SOFTWARE PRESENTATION

1.1 DESCRIPTION

IZAR@MOBILE 2 Android is a software designed for mobile radio reading of all the IZAR products and Diehl Metering products with integrated radio. It is intended for Android-based Diehl Metering handheld computers.

Handheld computer compatibility	IZAR HANDHELD Android
Tour management	Upload/download of up to 100 tours on the same handheld
Capacity	Up to 2,000 meters per tour
Reading mode	Auto, Auto extended, Stop on alarm and Detailed
Transfer mode	Locally (USB) or remotely (via an FTP server)
Software compatibility	IZAR@NET 2, IZAR PLUS PORTAL, IZAR@INTERFACE 2
Reading	Manual reading and forced manual reading
Radio protocols	PRIOS, REAL DATA and OMS
Reading in radio mode	Via IZAR RECEIVER BT
Modules programming	Via IZAR OH BT

1.2 PRODUCTS COMPATIBILITY

1.2.1 CONFIGURATION

Modules configuration	■ IZAR CP/DP R3/R3.5 ■ IZAR RC i, RC i LIGHT, RC i R4, RC i R4 LIGHT ■ IZAR RE PULSE ■ IZAR RC i Waterbox & Waterbox R4 ■ IZAR RC i G4 (OMS)
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1.2.2 READING

Radio reading	Radio modules: ■ IZAR CP/DP R3/R3.5 ■ IZAR RC i, RC i LIGHT, RC i R4, RC i R4 LIGHT ■ IZAR RE PULSE ■ IZAR RE MBUS (OMS) ■ IZAR RC i Waterbox and Waterbox R4 ■ IZAR RC i G4 (OMS) ■ IZAR RE TEMP, IZAR RE AIR Water meters: ■ HYDRUS water meters (PRIOS, REAL DATA and OMS protocols) Thermal energy meters: ■ SHARKY 773, 774, 775, 775 R4 (REAL DATA and OMS protocols) ■ RAY Radio (REAL DATA and OMS protocols) ■ SCYLAR INT 8 (REAL DATA and OMS protocols) Gas meters: ■ AERIUS (OMS protocol) Electricity meters: ■ ELICIUS
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2 INSTALLATION AND START

IZAR@MOBILE 2 Android software is factory pre-installed on IZAR HANDHELD Android handheld computer.

For any questions regarding the CAT S40 handheld computer use, refer to the manufacturer's technical manual

2.1 STARTING THE SOFTWARE

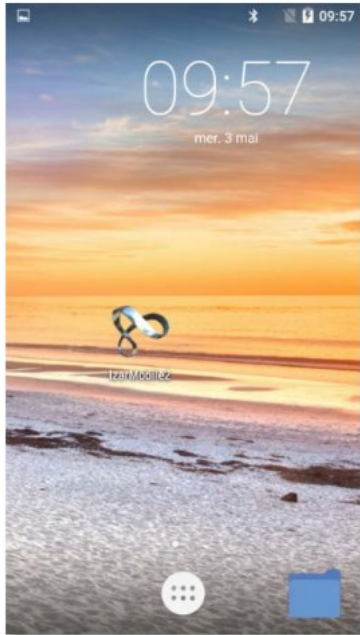


fig.1

- Check that the handheld computer's battery is fully charged and that the software is available on the handheld computer (factory installed).



- Click on the IZAR@MOBILE 2 icon.

3 OPERATION

3.1 MAIN SCREEN

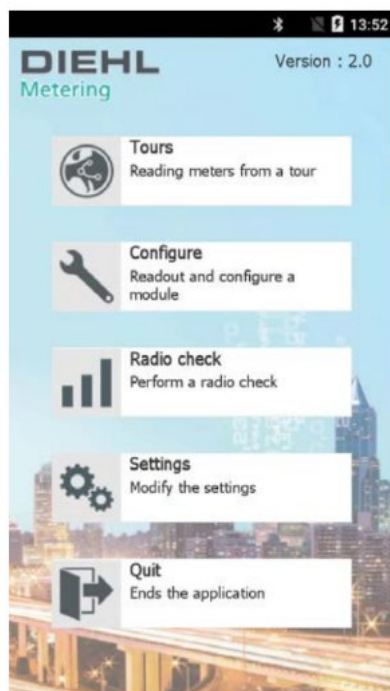


fig.2

The main screen features 5 icons giving access to the main functions (fig.2).



Tours



Configure



Radio check



Settings



Exit the application

3.2 « SETTINGS » MENU

Before the first use, it is necessary to set the application.

Click on  « **Settings** » (fig.2).

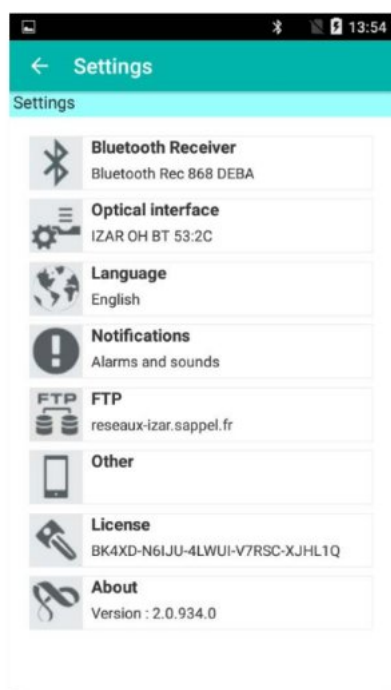


fig.3

In this menu you can:

-  Pair a radio receiver for radio modules reading (§ 3.2.1)
-  Pair an optical head for radio modules configuration (§ 3.2.2)
-  Choose the software language (§ 3.2.3)
-  Configure the alarms notifications (§ 3.2.4)
-  Configure an FTP server for remote data transfer (§ 3.2.5)
-  Activate a manual entry, a password or a jingle
-  View the licence number
-  View the software version

3.2.1 PAIRING A RADIO RECEIVER

Click on  « **Bluetooth receiver** » (fig.3).

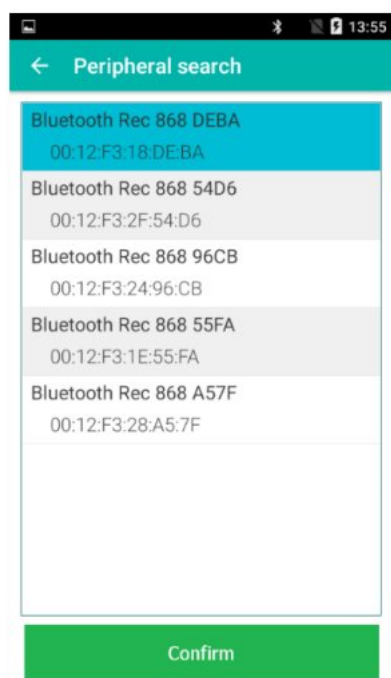


fig.4

In this window, you can pair a Bluetooth receiver IZAR RECEIVER BT in order to perform a radio reading of the Diehl Metering products (PRIOS, REAL DATA and OMS protocols).

- Switch on IZAR RECEIVER BT (refer to the IZAR RECEIVER BT installation guide).

The search starts at the opening of the window to detect the available receivers.

- Select a receiver in the list and confirm.

This operation is to be repeated if there is a change of device.

Note: if the receiver is not available in the list, it is necessary to pair it in the system and to check that it is switched on.

3.2.2 PAIRING AN OPTICAL HEAD

Click on  « **Optical interface** » (fig.3).



fig.5

In this window, you can pair an optical head IZAR OH BT in order to perform a radio reading of the Diehl Metering products (PRIOS, REAL DATA and OMS protocols).

- Switch on the optical head IZAR OH BT (refer to the user guide – IZAR OH BT).

The search starts at the opening of the window to detect the available optical head.

- Select an optical head in the list and confirm.

This operation is to be repeated if there is a change of device.

Note: if the optical head is not available in the list, it is necessary to pair it in the system and to check that it is switched on.

3.2.3 LANGUAGE SELECTION

Click on  « **Language** » (fig.3).

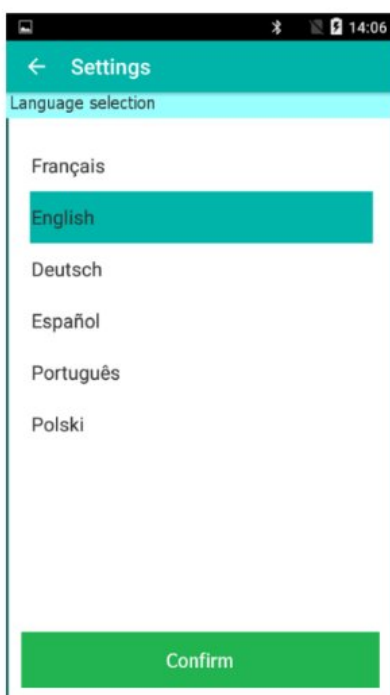


fig.6

- Select the appropriate language and confirm

3.2.4 « NOTIFICATIONS » CONFIGURATION

Click on  « **Notifications** » (fig.3).

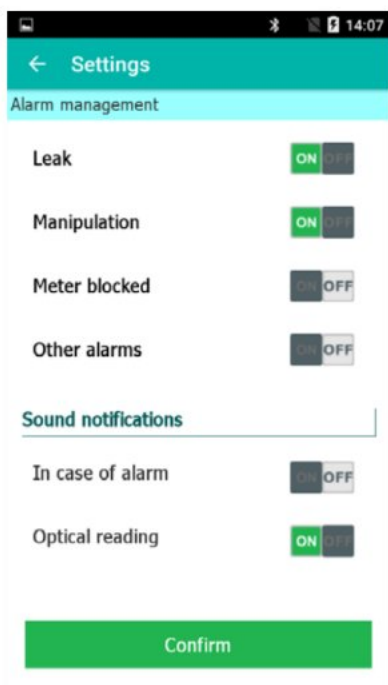


fig.7

It is possible to define the type of alarm for which the reading must be interrupted in « **Stop on Alarm** » mode (§ 3.3.1) in order to display a summary.

It is also possible to activate / deactivate a sound notification when an alarm or an optical reading is detected.

3.2.5 « FTP »

Click on  (fig.3).



fig.8

IZAR@MOBILE 2 software enables to transfer remotely the tours via a FTP storage server.

Definition of the FTP parameters (server name, ID, password, directory and port).

- Click on  Test Connection test to check and validate the connectivity.

3.2.6 « OTHER » SETTINGS

Click on  « **Other** » (fig.3).

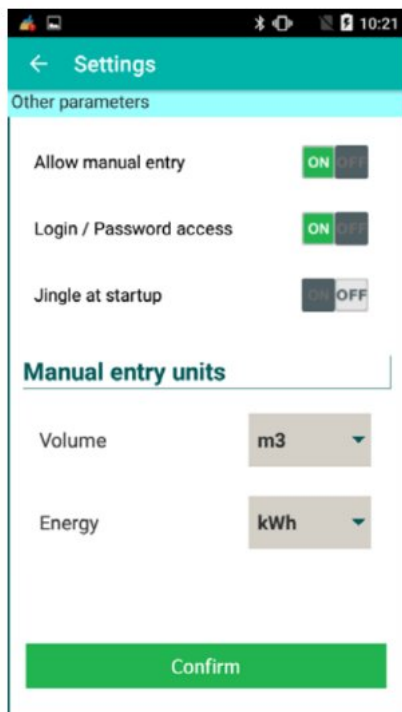


fig.9

In this screen you can :

- Activate or deactivate the manual entry of the meter data.
- Activate or deactivate a secure access to the software
- Activate or deactivate a jingle when the software starts.
- Select the measuring unit used during radio control or optical reading of the modules in manual mode.



3.2.7 « ABOUT » THE SOFTWARE

Click on  « **About** »



fig.10

This window displays the general information of IZAR@MOBILE 2 Android software.

This information is also available when clicking on the logo  on the main screen (fig.2).

To return to the  “**Settings**” menu, click on 

3.3 « TOUR » MENU

This menu enables customer's data readings via manual or mixed radio tours

Click on  « **Tours** », on the main screen (fig.2).



fig.11

This window displays all the tours available.

- You can:



Start a selected tour



Select the reading mode (auto, auto extended, stop on alarm or detailed)



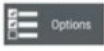
View the index, alarms and consumption, in read-only mode. The reading in radio mode is not activated.



FTP

Remote upload/download of a tour via a defined FTP server. This function is available only if the FTP parameters have been defined in the « **Settings** -> **FTP** » menu (§ 3.2.5).

3.3.1 THE DIFFERENT READING MODES

Click on  (fig.11) to choose a type of reading :

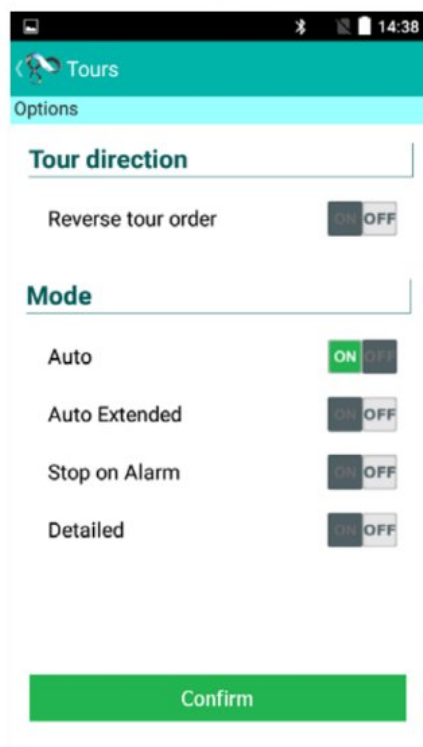


fig.12

« **Automatic** » mode: Once the reading is started, the indexes are memorized as they are received, and the data of the first unread subscriber will be displayed on the screen. This will guide the meter reader to the unread meter. In this case, no summary is displayed until the end of the tour. This mode is to be used for a reading in fast mode.

« **Auto Extended** » mode: Once the reading is started, the meter is considered to be read only if all its data have been transmitted. Some modules may have multiple frames and this mode ensures all data to be collected.

« **Stop on Alarm** » mode: Same as « **Auto Extended** » mode with stop only if an alarm is detected.

« **Detailed** » mode: Same as « **Auto Extended** » mode with stop on each meter.

It is also possible to choose the direction of the tour:

- Select  if you want the tour to be performed in reverse order.

Once the options set, click on 

Caution: to avoid any risk of accident, do not use the « **Stop on Alarm** » or « **Detailed** » modes while driving.

3.3.2 NAVIGATING THE TOUR

Once a tour is selected and after having clicked on  (fig.11), reading is activated and a window displays the progress of the tour.

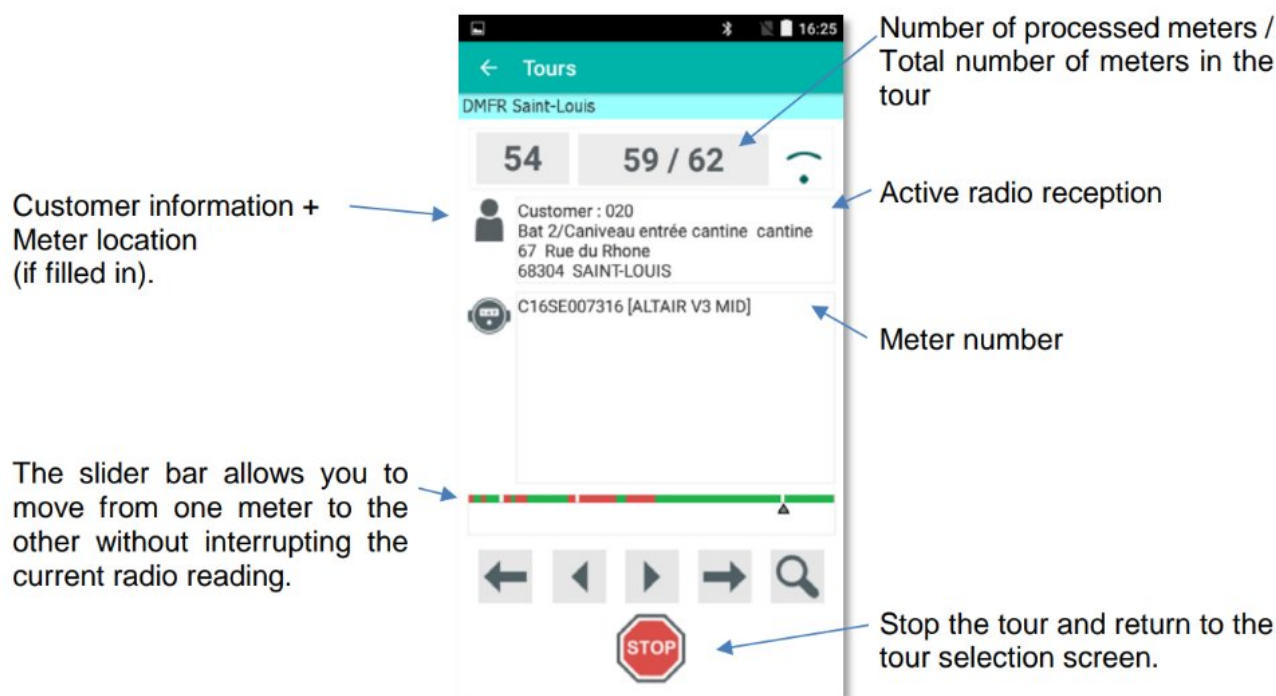


fig.13

3.3.3 READING A METER MANUALLY

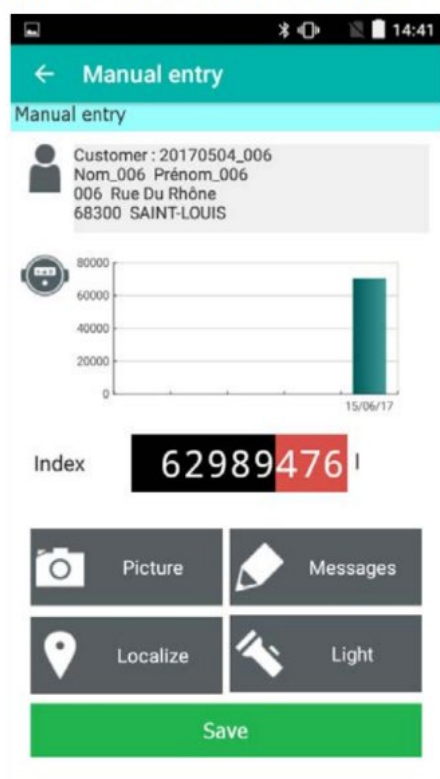


fig.14

The following window pops up if :

- If the customer reading is set to manual mode
- Or if a radio reading was switched to manual mode in case of difficulty of reading the radio.

It is then possible to directly enter the visual index of the meter, in the indicated unit, using the keypad and enter a comment if necessary.

Click on  to validate or cancel using the back arrow.



Enter a comment (fig.11).



Take a picture of the installation.



Save the meter GPS location.

3.3.4 FORCING MANUALLY A RADIO READING

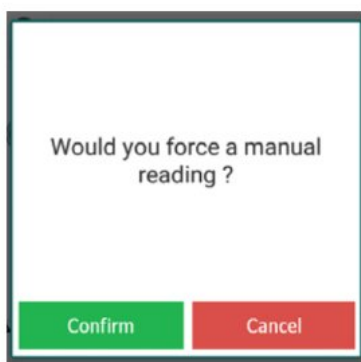


fig.15

During a tour reading, by clicking on the meter number, the following window pops up, allowing you to force a radio reading into a manual reading mode.

- Click on  to access the manual reading screen.

3.3.5 RADIO READING IN « STOP ON ALARM » MODE

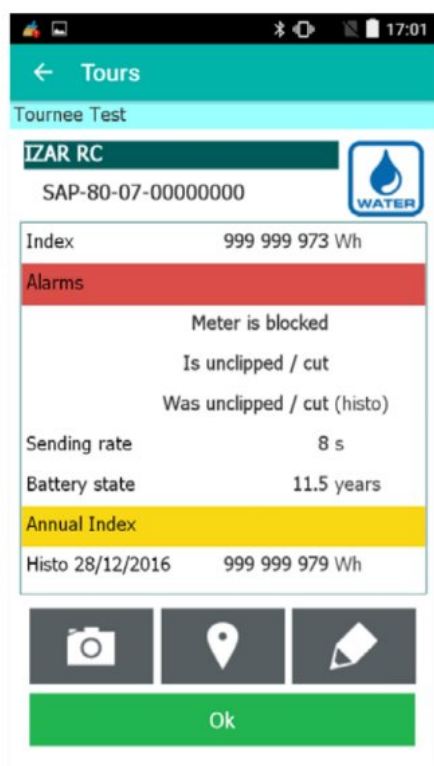
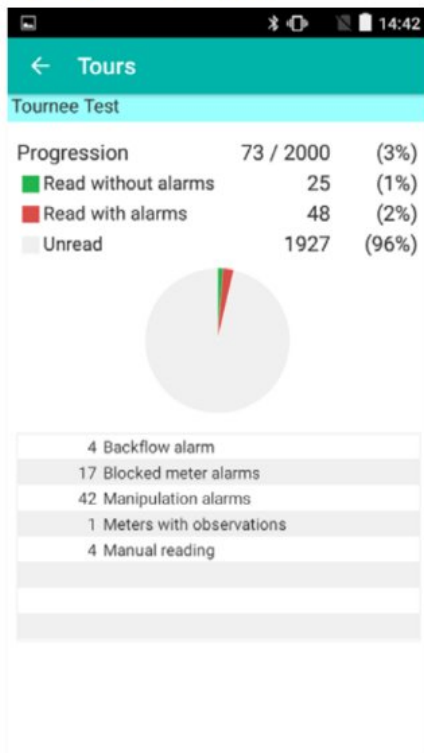


fig.16

During a radio reading in « **Stop on Alarm** » or « **Detailed** » mode, a summary of the meter data is provided, after each meter read :

- Radio version
- Serial number
- Index
- Historical index
- Active alarms
- Radio transmission interval
- Remaining battery lifetime

3.3.6 TOUR SUMMARY

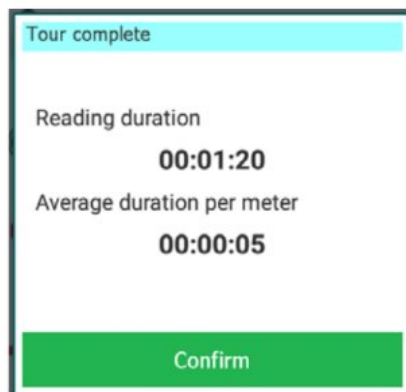


When leaving the tour reading, a summary displays :

- The number of meters :
 - read without alarm
 - read with alarms
 - not read
- The alarm details

fig.17

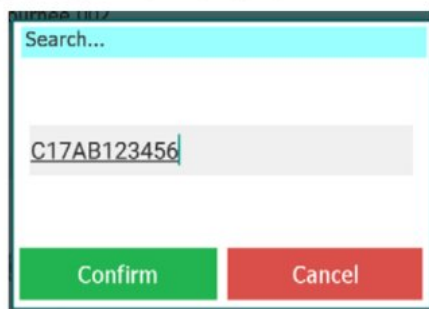
3.3.7 TOUR END



When the tour is over (i.e. 100% read), a message pops up, displaying the total duration time of the reading and average time per meter.

fig.18

3.3.8 SEARCH FUNCTION



- Click on  **View** on the  « **Tours** » screen (fig.11).
 - Enter (even partially) the meter name or serial number.
- The search is performed following the tour direction.

fig.19



fig.20

- If the search is successful, the customer details are displayed. If it is not the customer you were looking for, you can start a new search.
- If there is no element matching your search, it remains on the current Customer.

3.3.9 TOUR PREVIEW

On the main screen, click on  « **Tour** » fig.2



fig.21

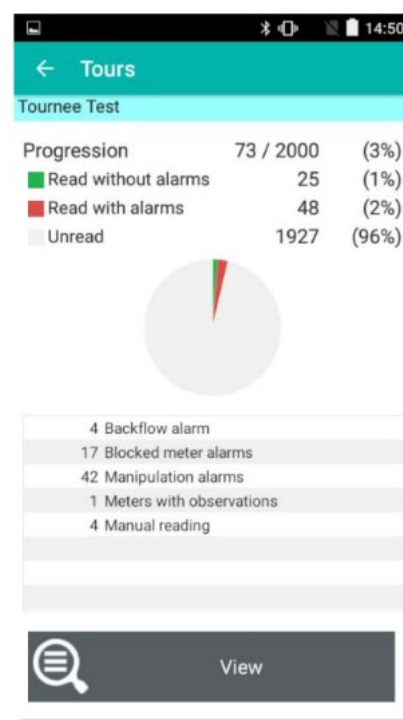


fig.22

- Select a tour

A tour summary pops up.

- Click on  View

- Click on  View to display the details of each meter.

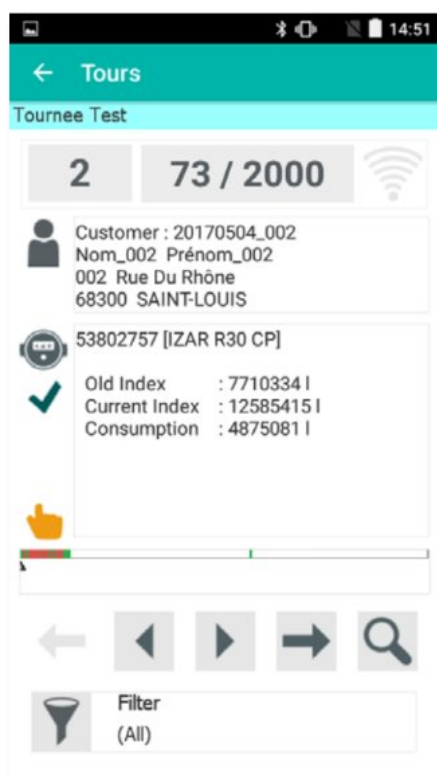


fig.23

In  mode, the reading is not activated but you can still navigate in the tour using the following arrows:

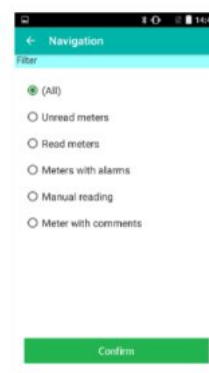


To search a meter :

- Click on 
- Fill in the meter number

To select the meters to preview:

- Click on  to select the meters to view:



3.4 « CONFIGURE » MENU

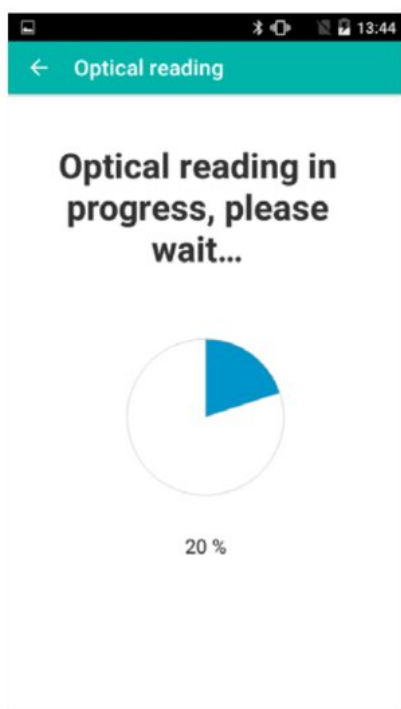


fig.24

To control or configure a radio module :

- Position the IZAR OH BT on the module
- Click on  **Configure** .

The radio module optical reading starts.

Once identified, the module data is displayed on a screen.

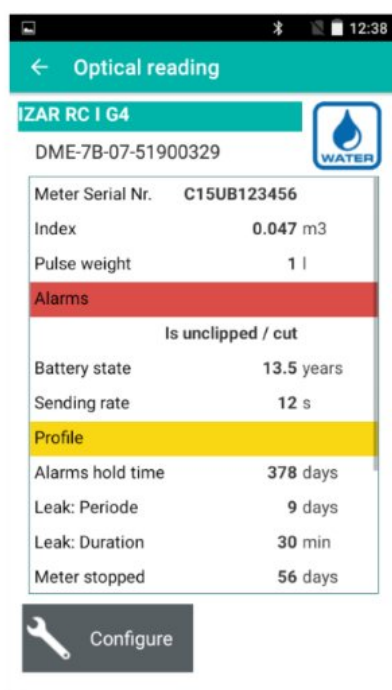


fig.25

- Click on  to configure or reconfigure the module.

Note : IZAR RE TEMP modules, SHARKY energy meters as well as HYDRUS ultrasonic water meters are factory preprogrammed and do not require any configuration.

In this case, the  button is deactivated and only the reading is possible.

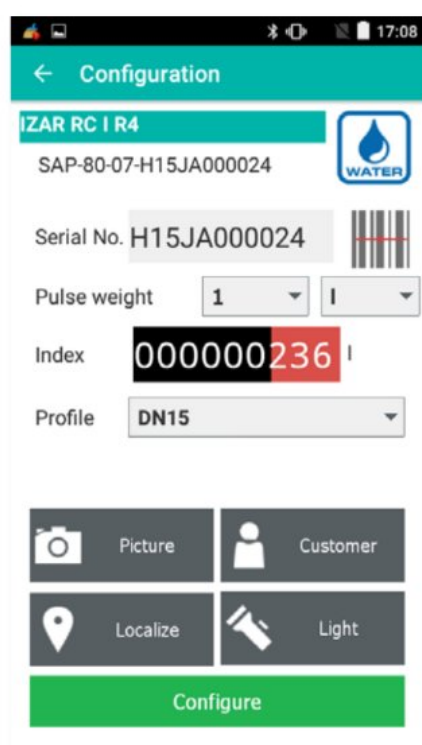


fig.26

- Fill in :
 - Serial No. Meter serial number
 - Pulse weight Pulse weight
 - Index Meter index
 - Profile Function profile (DN15 by default)
- Or directly scan the bar code with the meter serial number.

It is also possible to:

-  Fill in the Customer's data
-  Save the meter GPS location
-  Take a picture of the installation
-  Use the handheld computer flashlight

Tour

Customer informations

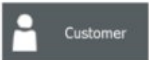
Name

Firstname

Street

ZIP City

Confirm

- Click on  to fill in the Customer's name and address.
- Click on **Confirm** to save the data in a configuration file.

This file can be downloaded on a PC and processed later on.

fig.27

The setup is complete. Do you want to make a radio check?

Confirm **Cancel**

- Click on **Confirm** (recommended) to start a radio control of the module.

An IZAR RECEIVER BT is necessary.

fig.28

Radio check

Radio check

Serial No. **C130C000001**

IZAR RC 

SAP-80-07-C130C000001

Radio signal quality 

Index	88 000 I
Alarms	
Is unclipped / cut	
Sending rate	8 s
Battery state	7.0 years
Annual Index	
Histo 01/01/2017	88 000 I

A summary displays the following information :

- Meter type
- Serial number
- Index
- Secondary Index
- Active alarms
- Radio transmission rate
- Remaining battery life time

3.5 « RADIO CHECK » MENU

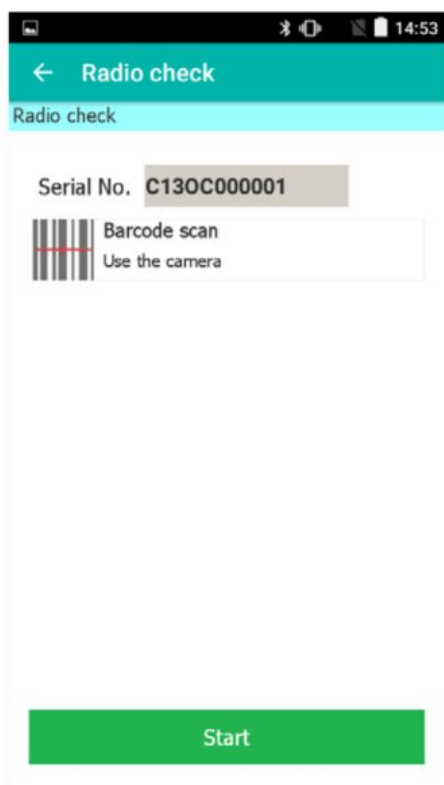


fig.30

To perform a radio control outside of a tour :

- Switch on the IZAR RECEIVER BT
- Click on  « **Radio check** » on the main screen (fig.2)
- Fill in the meter serial number or scan the bar code
- Click on 

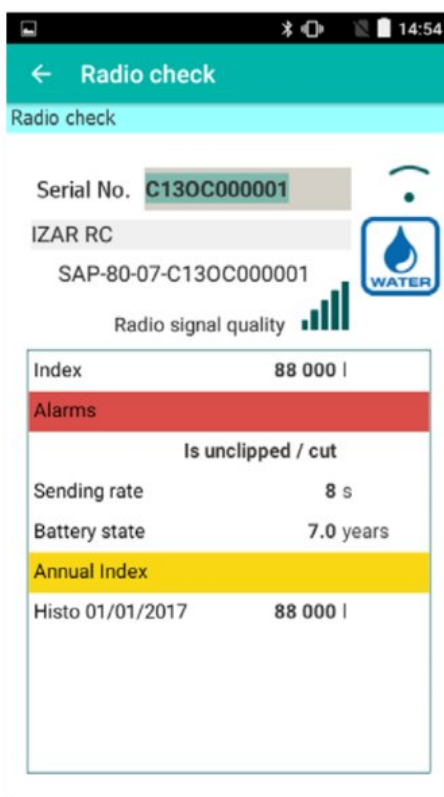


fig.31

Once the module is read, a summary displays the following information :

- Meter type
- Serial number
- Index
- Historical index
- Alarm if available
- Radio transmission rate
- Remaining battery life time

Reading is performed continuously with refreshing of the data with each new radio frame received. It can be interrupted at any time by clicking on the back arrow.

3.6 DOWNLOADING AND UPLOADING A TOUR

3.6.1 LOCALLY

In order to upload a tour(s) onto the handheld computer, the following minimum configurations are needed :

- Windows 7 or higher
- IZAR@INTERFACE 2 or IZAR@NET 2 / IZAR PLUS PORTAL software

To transfer the tour(s):

- Connect IZAR HANDHELD Android handheld computer to the PC.
- Go to IZAR@MOBILE 2 software main screen (fig.2).
- Start the transfer from IZAR@NET 2 data management software. The link is automatically established.

You can upload up to 100 tours onto the same handheld computer.

3.6.2 REMOTELY

In order to upload/download a tour remotely you need:

- Handheld computer and SIM card to access the mobile network.
- IZAR@NET 2 data management software.
- FTP server to store the tour(s).

For safety reasons, data are encrypted and compressed.

4 « PASSWORD ACCESS » MENU

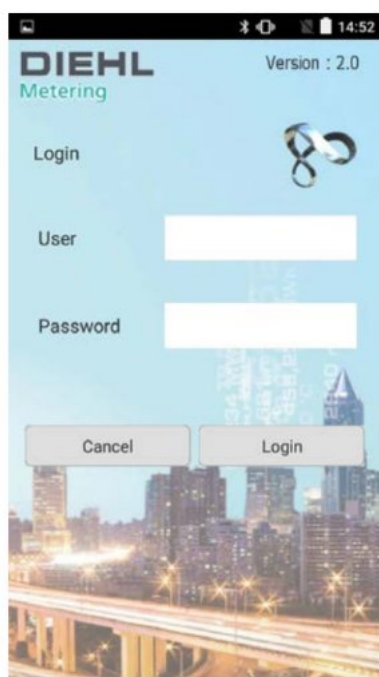


fig.32

You can activate / deactivate a secure access to IZAR@MOBILE 2 software with a user name: **“admin”** and password: **“radio”**.

- Go to **“Settings”** menu (fig.2)
- Click on  **“Other”** (fig.3)
- Select  (fig.9)
- Enter the user name and password:
 - User = **“admin”**
 - Password = **“radio”**

5 SOFTWARE UPDATE

Please contact your after sales support or system technician in order to handle any update or reinstallation of the software.