

Efento Inspector User Manual (v. 3.7.1. or newer)



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1. Introduction

1.1. Application installation

Download and install Efento Inspector from Google Play. The application is free and available for devices equipped with Bluetooth 4.0 and Android 4.4 or newer.

1.2. Supported recorders

The *Efento Inspector* supports all kinds of Efento recorders. These include:

- Temperature (including loggers with external probe and low temperature loggers),
- Temperature and humidity,
- Temperature, humidity and atmospheric pressure,
- Differential pressure,
- Open / close,
- flood.

1.3. Preparation to work

Connect the smartphone on which operates the Efento Inspector application to the power line from which the refrigerator is powered. The smartphone should be connected to charging all the time, as this will enable to alarm about a power failure.

Set up a free Google account for your device. This account will be used to send reports and e-mail notifications. You can create a Google account using this [page](#). Make note of the login and password you have created as it will be needed later in the configuration.

Important: after creating an account, go to the Google account settings, then the to *Login and security* tab and enable the option: *Allow less secure applications*.

When you first start the *Efento Inspector* application, you will be asked to agree to the terms of use. Read them carefully and, if you agree with them, select the *Accept* option. Confirm the agreement with the *OK* button.

1.4. Configuration of email account

Open the application menu on the left side of the screen and select the *Settings* tab.

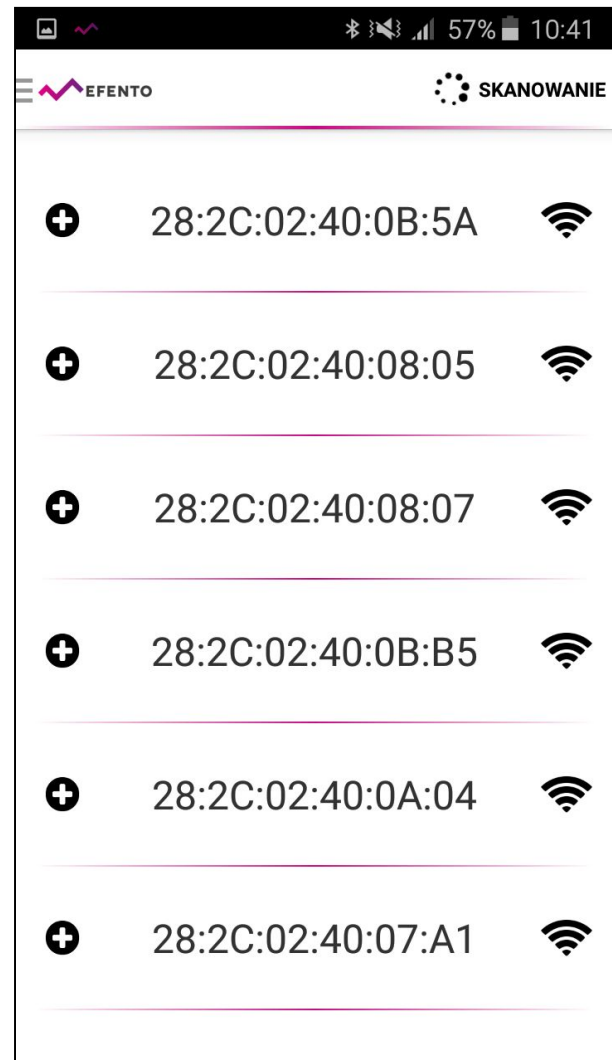
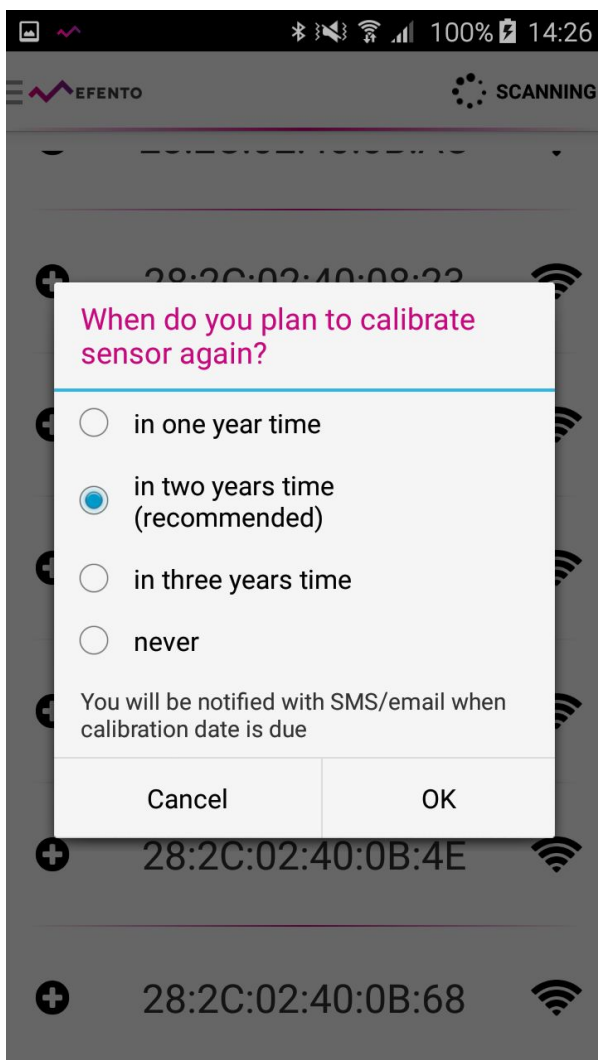
Go to the *Export* tab and then to the *Email configuration*. In the window that appears, enter the previously set email address and password.

Click the *Test login information* button. In case of correct configuration, you will see the *Correct data* notification.

2. Basic configuration

2.1. Adding recorders to the list of recorders

1. Open the menu on the left side of the screen and select the *Search* tab.
2. The application will automatically search all recorders within range of the device and show them on the list in the form of their serial numbers. It may take about 20 seconds.
3. Click on the recorders that you want to add to your list of recorders. With each of the recorders you will be asked if it was calibrated. If the recorder has been calibrated, enter the date of its calibration and specify the time after which you want the application to remind you to re-calibrate. **Calibration is recommended at least every two years.** The application will notify each user added to the *Notifications* tab about the need to renew the calibration.
4. The recorders marked with a padlock are encrypted. To be able to add them to your list of recorders, enter the correct encryption key for the selected recorder.
5. After adding the recorders, close the adding mode.



2.2. Changing the names of recorders

1. Open the main menu on the left side of the screen and select the *Loggers* tab.
2. Click and hold on the list the recorder whose name you want to change. You can identify the recorder by its serial number, which is constant.
3. From the bar at the top of the screen, select the edit icon.
4. In the window that appears, enter the new name of the selected recorder and confirm the changes with the *OK* button.


2.3. Alarm thresholds

1. In the *Loggers* tab, click on the recorder for which you want to set alarm thresholds.
2. After opening the recorder configuration, select the *Limits* tab from the bar at the top of the screen.
3. Enter the upper and lower threshold.

Note: If the set alarm level is exceeded, the name of the sensor will be highlighted in red.

2.4. Phone numbers and email addresses for emergency messages

Warning: If you want to use e-mail alerts, make sure your smartphone has access to the Internet and that you have set up an email account. The configuration of the e-mail account is presented in chapter 1.4. *Configuration of email account*.

1. Open the menu on the left side of the screen and select the *Notifications* tab.
2. Click the  icon in the upper right corner of the screen.
3. In the window that appears, select the type of alarm (SMS / e-mail), and then enter the phone number or email address to which you want to send alerts. Confirm adding the alarm with the *OK* button.
4. To change the type of notifications sent to a given number, click on it and select in the list for which notifications should be sent. All alarms are enabled by default.
5. To delete or edit the phone number / email address, click on it in the list and hold. From the bar at the top of the screen, select the edit or delete icon.

2. Charts

1. From the list of recorders, select the one whose measurements you want to display.
2. From the bar at the top of the screen, select the *Charts* tab.
3. By default, the application draws charts from the last 24 hours. If you want to change the range of data on the chart, open the menu on the left side of the screen and select the *Settings* tab. Go to the *General* settings, then *Chart time frame* and select the value that interests you.

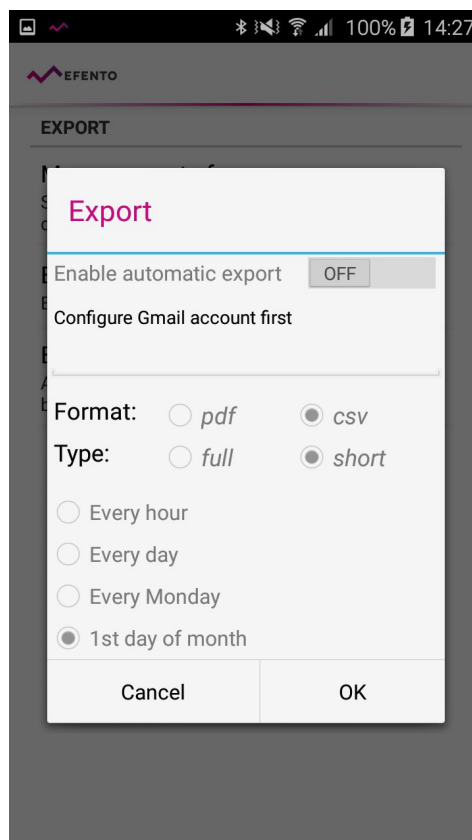
3. Data export

1. From the list of recorders select the one whose measurements you want to export.
2. From the bar at the top of the screen, select *Export*.
3. Choose the data export format (pdf / csv) and report type:
 - a. Full: the report contains temperature readings, lower and upper alarm threshold values as well as event information (temperature limit exceeded, no power supply, temperature return to the normal range, power return).
 - b. Short: the report contains only temperature readings and the values of the lower and upper temperature thresholds.
4. Enter the email address to which the report should be sent.
5. Select the period from which you want to export the readings by specifying the *From* and *To* range.
6. Confirm with the *Send* button. For the first time you export data, the application will ask you to provide Google account data from which you want to send the report. Select the "Existing" option, then enter the login and password for the Google account you created in 1.3. *Preparation to work*.
7. The data will be sent to the indicated email address. It may take a few minutes.
8. By default, data is saved for the report every 15 minutes. If you want to change the frequency of data storage, open the application menu on the left side of the screen and select the *Settings* tab. Go to *Export*, then select *Measurements frequency* and set the value that interests you.

4. Automatic email reports

The Efento system allows automatic sending of reports from all connected recorders. Reports can be sent to any number of recipients. To configure automatic email reports:

1. Open the main menu on the left side of the screen and go to the *Settings* tab. Select *Export* and then *Export* again, and then turn on the switch next to *Enable automatic export* (blue).
2. Choose the data export format (pdf / csv) and report type:
 - a. Full: the report contains temperature readings, lower and upper alarm threshold values and event information (temperature limit exceeded, no power supply, temperature return to the normal range, power return)
 - b. Short: the report contains only temperature readings and the values of the lower and upper temperature thresholds
3. Enter the email address to which automatic reports should be sent. If you want reports to be sent to several addresses, enter them separated by a comma (eg abc@abc.pl, xyz@xyz.pl).
4. Select from the list the frequency with which reports should be sent:
 - a. every hour,
 - b. once a day - a report for the previous 24 hours is sent every day at 8 am,
 - c. every Monday - a report for the previous week is sent every Monday at 8 am,
 - d. on the first day of the month - the report for the previous month is sent on the first day of the next month at 8am.



5. Removing a sensor from the list

If you want to remove the recorder from the list, click and hold it. From the bar, at the top of the screen, select the sensor removal icon.

Warning: By removing the recorder from the list, you delete all its readings from the base station memory. This data will not be able to be restored.

6. Audio / visual alarm when the threshold is exceeded

The application enables the activation of an audible and visual alarm when the defined alarm thresholds are exceeded. If the measured values exceed the alarm threshold, the smartphone screen will automatically light up and an alarm will sound. By default, the audible alarm is turned off. To activate it, open the main application menu on the left side of the screen and open the *Settings* tab. Then go to *Alarms and notifications* and click *Sound alarms*. In the window that appears you can choose after what time the application should inform again about the threshold exceeded (5, 15, 30 min). For example, if 15 minutes has been selected in the audible alarm setting and the temperature has been exceeded, an audible alarm will sound, which will disappear when accepted by the user. If after 15 minutes the temperature is still above the alarm threshold, the alarm will restart. If the temperature drops below the set alarm threshold within 15 minutes, the alarm will not be switched on again.

7. Remote reading of current temperatures

To obtain information on the current temperature values measured by the sensors, send an SMS with the text "efento" to the number of the SIM card placed in the base station. After a while you will receive a return SMS with current measurements. The option can be turned off. To do this, go to the *Settings* tab and then to *Alarms and notifications*. There you will find the option *Enable status text messages*. The ✓ symbol indicates that the option is enabled.

8. Checking prepaid balance / topping-up SIM card

If you use a prepaid card (which requires recharging), to check your account balance or top-up the SIM card from the *Settings* menu, select *General* and *SIM services*, and enter the top-up code or account code. The codes are available on the operators' website.

9. App update

To check for updates, open the main application menu on the left side of the screen and go to the *Settings* tab, then select *General*. Click on *Update* and the application will open the Play Store and automatically check the availability of the *Efento Inspector* update. If the *Update* button in the Play Store is active, press it to download and install the update.