

Manual: QA Battery Test

Battery level check of all battery-powered devices connected to the gateway, with a regular summary report sent by e-mail.

Introduction

QA Battery Test automatically monitors the battery level of all battery-powered devices connected to the gateway. At a regular interval it compiles a status overview and sends it by e-mail to the selected recipient. The purpose is to prevent failures of sensors (e.g. temperature or motion sensors) before their batteries run out completely.

The application:

- detects battery-powered devices connected to the gateway,
- reads the current battery level of each of them,
- sends a summary report by e-mail according to the settings.

The application cooperates with Mervis SCADA for visualisation and with other QA applications of the Energy Management family — for spot prices, energy sharing, controlled wallboxes, DHW heating and more.

Upstream and downstream applications

Upstream applications

The application is standalone and does not require any upstream QA application. To send the e-mail reports, the gateway must have working e-mail notification settings.

Downstream applications

In terms of control, the application is the last link in the chain — it has no downstream QA applications.

Installation and initial setup of the QA

Installation

Purchase the application in the Smart Home and Energy e-shop (<https://eshop.smarthomeenergy.cz>). After the purchase you receive an e-mail with a link to the activation form, in which you choose one of the two installation methods:

- **Installation via the SHE Installation Application (recommended)** — the activation form provides a link to download the Installation Application. Install it into the unit; it then automatically downloads and installs the purchased licences. It provides automatic updates of all applications and easy licence management (requires the "superuser" credentials for the unit). See the separate "Installation Application" manual for details.
- **Standalone installation file** — the activation form provides links to download an encrypted *.fqax file bound to the entered unit S/N. Install the file manually into the unit according to the unit manufacturer's instructions (logged in as "superuser"). This option does not allow automatic updates.

After a successful installation, the application is available on the gateway desktop as the "Battery Test" tile.

Operating prerequisites

- The battery-powered devices you want to monitor are added to the gateway.
- The user who is to receive the e-mail reports has valid access to the unit, so that they appear in the recipient list.

Opening the application control card

To open the application card with all controls, move the cursor over the "Battery Test" tile on the desktop and click the eye icon in the top-right corner of the tile. The application detail view opens, showing the status overview and settings.

Warning: Not all cards and tiles are displayed to all users. Each user selects which cards and tiles are displayed on the Display Settings card (sheViewControl application) – levels SHORT, ADVANCED and ADMIN. If you cannot see a described card, check the settings on this card.

User settings

The application control card consists of an overview part (device status and the time of the last update and of the last e-mail) and the "Settings" section, where the sending period, the hour of sending, the list of excluded devices and the addressee are set.

Status overview

The top part of the card contains a table with an overview of the devices and the following columns:

- ID – identifier of the device in the gateway,
- Device name – name of the device,
- Dead status – whether the device is currently communicating,
- Battery – current battery level.

Below the table there are two time values:

- Updated – date and time of the last data update from the devices.
- Email sent – date and time when the e-mail report was last sent.

Overview buttons

- Show all – displays the complete list of all battery-powered devices registered by the application.
- Test – runs an immediate test and update of the battery status of all devices (without waiting for the regular period).

Settings

The "Settings" section is used to adjust the report sending parameters and to manage excluded devices.

Period

Sets how often the summary battery status report is sent by e-mail (e.g. 7 days).

Hour of Sending

Sets the hour of the day at which the e-mail report is sent (e.g. 8, i.e. 08:00).

Removed device

The "Choose" drop-down menu is used to exclude a specific device from monitoring and reporting. Excluded devices are not listed in the e-mail report and are not checked in any other way.

Procedure:

- In the "Removed device" menu, select the device you want to exclude.
- The change is saved automatically.

Send All

The "Send All" button immediately sends the complete battery status report to the configured addressee, regardless of the configured period and hour of sending. Useful for verifying functionality after a change of settings.

Addressee

The "Addressee" drop-down menu determines who the e-mail report is sent to. The menu contains the users registered in the gateway (the user ID and their e-mail address are shown, e.g. ID:2 admin fibaro@smarthomeenergy.cz).

Update

The "Update" button at the bottom of the card reloads the list of devices and users from the unit. Use it if an expected item is missing from the "Removed device" or "Addressee" drop-down. Changes to the settings (period, hour of sending, removed device, addressee) are saved automatically.

Notes

- The regular report is sent at the configured hour with the configured period; an immediate send can be triggered with the "Send All" button.
- The battery status shown in the application corresponds to the value reported by each device – the accuracy depends on the specific device and its firmware.
- Excluded devices are neither monitored nor reported; if you need to hide a device temporarily, use this option instead of removing it from the system completely.
- To evaluate long-term data, we recommend a connection with Mervis SCADA (value export, charts, history).