

EN54 Internal Battery user manual

Updated August 4, 2025

Revision 1



EN54 Internal Battery is a rechargeable Li-ion battery for powering **EN54 Fire Hub Jeweller** or **EN54 Fire ReX Jeweller**. The battery is available in two versions:

1. **EN54 Internal Battery (24h)**. It provides up to 24 hours of autonomous operation for the device and has a capacity of 5 Ah.
2. **EN54 Internal Battery (72h)**. It provides up to 72 hours of autonomous operation for the device and has a capacity of 10 Ah.

[Buy EN54 Internal Battery \(24h\)](#)

[Buy EN54 Internal Battery \(72h\)](#)

[Buy EN54 Fire Hub Jeweller](#)

[Buy EN54 Fire ReX Jeweller](#)

Compatible hubs and range extenders

The battery requires a compatible Ajax EN54 CIE or range extender to operate.

[Check device compatibility](#)

Operating principle

EN54 Internal Battery (24h) and **EN54 Internal Battery (72h)** are internal batteries used as a backup power source for the Ajax EN54 CIE or range extender.

Selecting an installation site

The battery must be installed only in the EN54 Fire Hub Jeweller or EN54 Fire ReX Jeweller enclosure. When selecting the CIE or range extender location, consider the factors that affect the battery operation:

- Operating temperature range.
- Permissible humidity level.

Consider the placement recommendations when designing your Ajax system. Only professionals must design and install the system. The list of recommended Ajax partners is [available here](#).

Where not to install the device with EN54 Internal Battery

1. In places with high temperature. For example, near heat sources, such as radiators, heaters, direct sunlight, etc. High temperature can cause battery overheating, rapid self-discharge, damage to its components, explosion, or fire.
2. In places with high humidity. Moisture can corrode the contacts or cause a short circuit.

3. Near flammable materials. Never place the battery near flammable liquids or materials. Doing so increases the risk of fire or explosion, especially if a short circuit occurs.

Installation

Before installing the battery, ensure that you have selected the optimal CIE or range extender location and read the [EN54 Fire Hub Jeweller](#) and [EN54 Fire ReX Jeweller](#) user manuals. The battery can be installed in the CIE or range extender, even if an external power supply is connected.



During Ajax system installation and operation, follow the rules and requirements of regulatory legal acts on electrical safety.

Do not dismantle, open, or shred secondary cells or batteries. Do not insert your fingers, hands, or foreign objects in any battery gaps or openings, such as vents, terminals, etc.

How to install the battery

Into EN54 Fire Hub Jeweller

Into EN54 Fire ReX Jeweller

Insert the battery into the appropriate slot at the bottom of the CIE enclosure until it clicks into place.

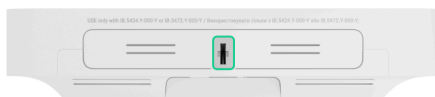


How to remove the battery

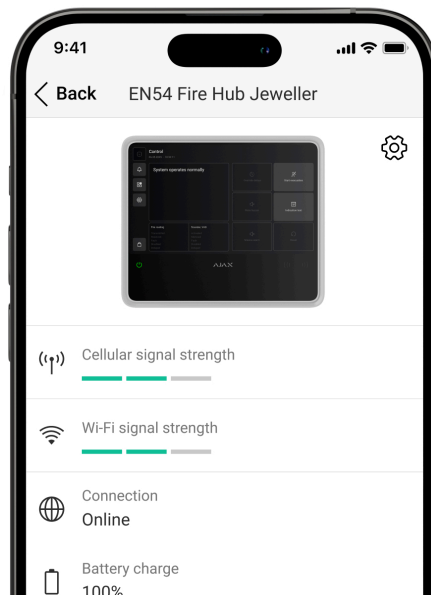
From EN54 Fire Hub Jeweller

From EN54 Fire ReX Jeweller

Insert the special tool into the hole at the bottom of the CIE enclosure.
When the battery comes out slightly, pull it down.



States



The CIE and range extender states include information about the battery status. These states can be found in [Ajax apps](#):

1. Go to the **Devices**  tab.
2. Select **EN54 Fire Hub Jeweller** or **EN54 Fire ReX Jeweller** from the list.

Maintenance

EN54 Internal Battery (24h) and **EN54 Internal Battery (72h)** do not require maintenance. They can be charged after being installed into the CIE or range extender powered by the main power supply.



When the battery is low, recharge it as soon as possible to prevent battery degradation.



If the CIE is turned off and not powered by the main power supply, remove the battery from the CIE enclosure.

If the battery is not used , it should be charged and stored at a temperature not exceeding +30 °C. This is necessary to reduce battery degradation.

Technical specifications

[All technical specifications of EN54 Internal Battery \(24h\)](#)

[All technical specifications of EN54 Internal Battery \(72h\)](#)

[Compliance with standards](#)

Warranty

Warranty for the Limited Liability Company “Ajax Systems Manufacturing” products is valid for 2 years after the purchase.

If the device does not operate properly, we recommend contacting Ajax Technical Support first. In most cases, technical issues can be resolved remotely.

[Warranty obligations](#)

[User agreement](#)

Contact Technical Support:

- [e-mail](#)
- [Telegram](#)

Manufactured by “AS Manufacturing” LLC