

ELKO - Smart Smoke Alarm Battery

Device user guide

Information about features and functionality of the devices
11/2022



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Safety information

Important information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

ELKO - Smart Smoke Alarm Battery



EKO09761

For your safety

NOTICE

EQUIPMENT INSTALLATION HAZARD

- Always operate the product in compliance with the specified technical data.
- Keep the installation instruction for the life of the product.

Failure to follow these instructions can result in equipment damage.

⚠ WARNING

SEALED BATTERY HAZARD

Do not recharge, disassemble or incinerate the battery.

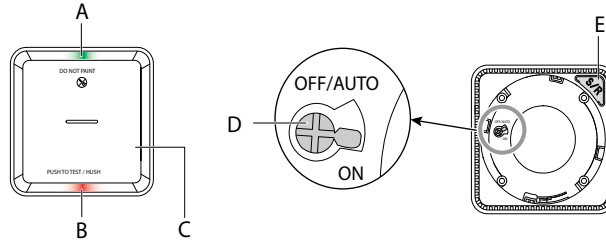
Failure to follow these instructions can result in death, serious injury, or equipment damage.

About the device

The Smart Smoke Alarm Battery (**device**) uses a photoelectric sensor to detect smoke generated by fire. It also includes a temperature sensor that detects heat caused by rapid increase in temperature. When connected to the ELKO system the device sends the notifications via the ELKO app.

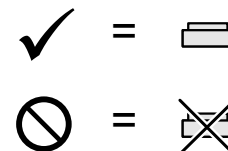
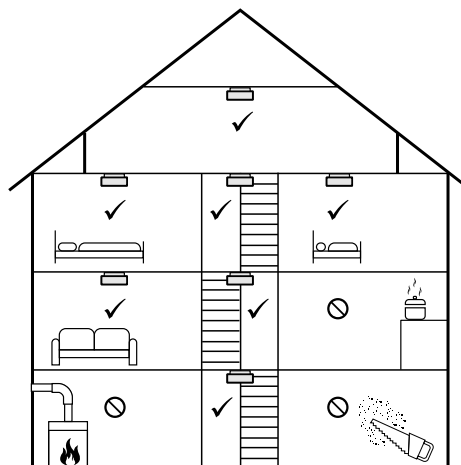
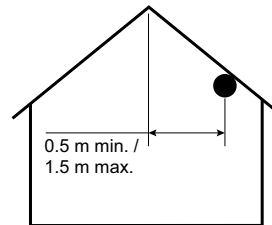
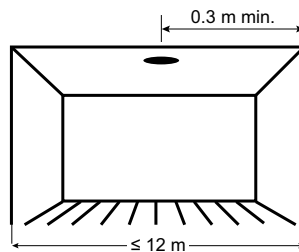
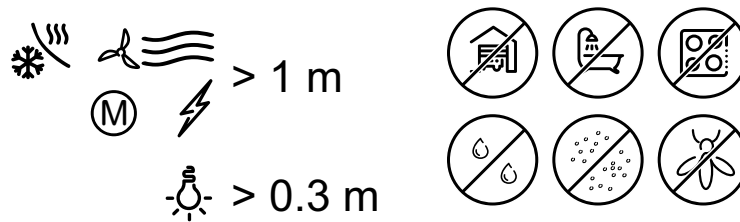
Operating elements

- A. Status LED (Amber, Green and Red LED)
- B. Standby LED (Red LED)
- C. Test/Hush button
- D. Power switch
- E. Setup/Reset button



Installation location

- Smoke Alarm can be installed on a flat/inclined ceiling, or on the wall.
- Do not install smoke alarms near windows, doors, or ducts.
- Avoid paint, stickers, or other decorations.



Installing the device

Refer to the installation instruction supplied with this product.
See Smart Smoke Alarm Battery.

Pairing the device

Using the ELKO app, pair your device with the **ELKO SmartHUB** to access and control the device. You can either add the device manually or do an auto-scan to pair it.

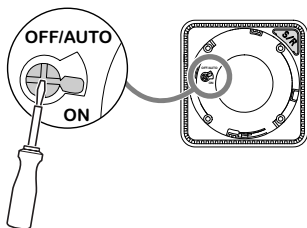
IMPORTANT: Do not mount the device before the pairing. The Setup/Reset button (Zigbee) and power switch are located on the rear side of the device.

NOTE: When multiple smoke alarms are paired with same ELKO SmartHUB, an 868MHz radio frequency (RF) interconnection is automatically created between smoke alarms.


Pairing device manually

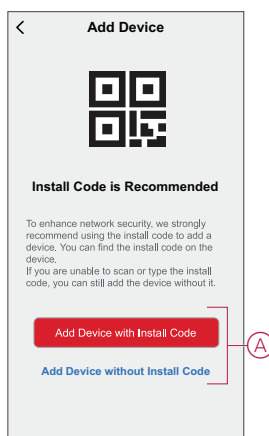
To pair devices manually:

1. Locate the power switch on the rear side of the device. Use a screwdriver to turn the power switch to **ON** position.



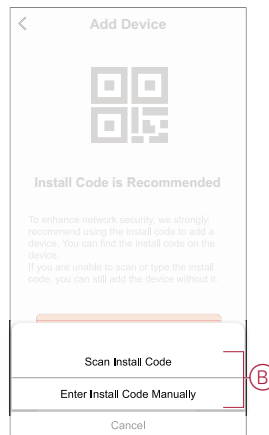
NOTE: When mounted on wall or the ceiling, the device is automatically turned **ON**.

2. In ELKO Smart app **Home** page, tap **+**.
3. Tap  and select the required **ELKO SmartHUB** on the slide-up menu.
4. Select any one of the options to add device (A):
 - **Add Device with Install Code**
 - **Add Device without Install Code**



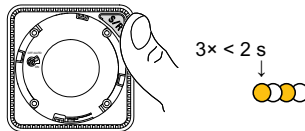
5. To pair the device with an install code,, tap **Add Device with Install Code** to display the slide-up menu. Select any one of the options (B):
 - **Scan Install Code** - You can scan the device for the an install code.
 - **Enter Install Code Manually** - You can manually enter the install code from the device

After pairing the device with an install code, proceed to **Step 7**.



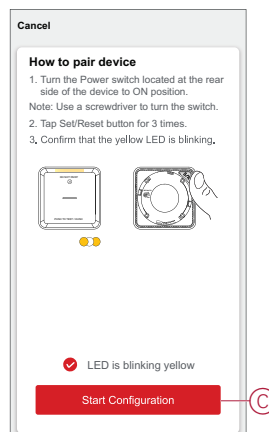
TIP: It is highly recommended to pair the device with Install code.

6. To pair the device without install code, tap **Add Device without Install Code**.
7. Once the device is On, press Set/Reset button 3 times.

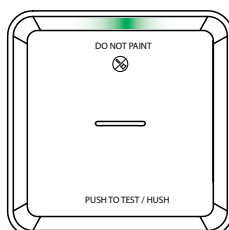


The LED blinks yellow.

8. In the app, select **LED is blinking yellow** and tap **Start Configuration (C)**.



9. After a few seconds, a solid green LED indicates that the device has been successfully paired.



10. Once the device is paired in the app, tap **Done**.

Pairing device with auto scan

Pairing the device with auto scan automatically discovers the device when the corresponding device is powered on.

Follow the steps to pair the device:

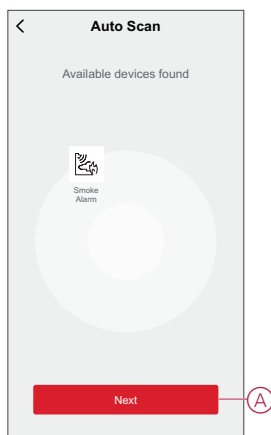
1. Locate the power switch on the rear side of the device. Use a screwdriver to turn the power switch to **ON** position.
2. On the **Home** page, tap **+**.
3. Tap **Auto scan** and then tap **Confirm**.
4. If you have multiple hubs, do Step 4 or proceed to Step 5.
5. Tap **Select hub** and select an ELKO SmarthUB from the slide-up menu.
6. Press the Set/Reset button 3 times within 2 s.

NOTE:

- The LED blinks yellow.
- Wait for a few seconds until the device search is complete.

TIP: If you want to pair multiple devices at once, perform step 5 on each device and wait for a few seconds for them to be detected.

7. Select **Smoke Alarm** and tap **Next (A)**.



8. Once the device is added successfully, tap **Done**.

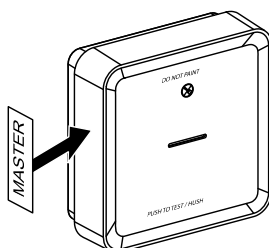
Setting up connection without ELKO system

Interconnecting devices without ELKO SmarthUB

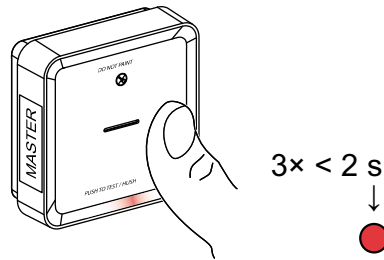
The smoke alarms (devices) can be connected directly to each other via RF connections even without a ELKO SmarthUB network.

IMPORTANT: Turn the power switch to ON position on all the devices.

1. Identify a device and mark it as **Master** with a label supplied. Other devices are considered as **Slave**.



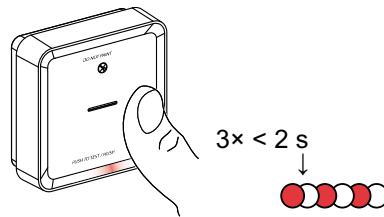
- Short press the Test/Hush button 3 times within 2 s on the primary device.



The Standby LED turns on for 30 s once it is in pairing mode.

- Identify a Slave device and short press the Test/Hush button 3 times within 2 s.

The Standby LED blinks 3 times on both Master and devices indicating a successful RF connection. Then on the Master device, the Standby LED again turns on for 30 s



Repeat the step 3 on all Slave devices.

NOTE: To exit from pairing mode, short press (< 0,5 s) the Test/Hush button 3 times on the Master device. The Standby LED turns off indicating that the Master device is not in pairing mode.

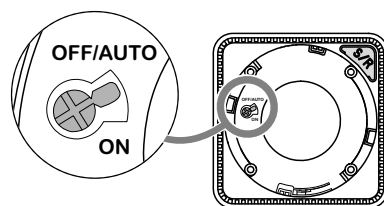
Disconnecting a slave device

Remove a Slave device from the mounting base (See "Removing a device from the mounting base in the instruction manual").

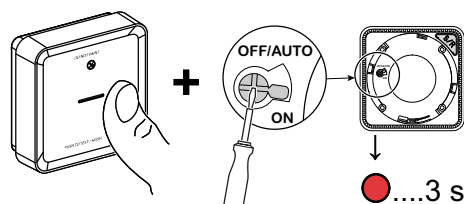
NOTE:

- Do not remove the Master device.
- Read the following steps before disconnecting a Slave device.

- Make sure that the power switch is in OFF/AUTO position.

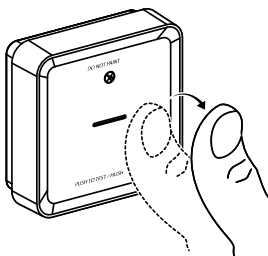


- Press and hold the Test/Hush button and simultaneously turn the power switch to ON position.

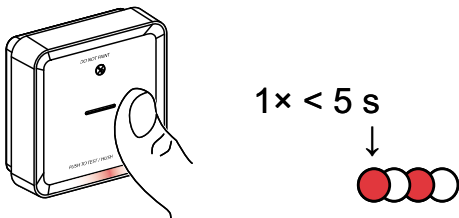


The Standby LED turns on for 3 s.

- 3. Continue to hold the Test/Hush button until the Standby LED turns off. Then release the Test/Hush button.



- 4. Short press the Test/Hush button when the Standby LED is on for 3 s.



The Standby LED blinks for 5 s indicating disconnecting of RF interconnection also the Status LED blinks green for 7 times.

IMPORTANT: When the Slave device is successfully disconnected, make sure to turn the power switch to OFF/ AUTO position.

Testing the device

The device has a test mode that helps ensure the proper operation of the device. It is recommended to test the device once a month. If the device is installed in a mobile home, it is recommended to test the device weekly and before every journey.

NOTE: Using ELKO Smart app you can set the monthly reminder for test alarm in settings, page 17.

Testing the individual device

IMPORTANT:

- Test the device once a month to ensure proper operation.
- If the smoke alarm is installed in a mobile home, test weekly and before every journey.

Press the Test/Hush button on each device for more than 3 s until an alarm goes off. If the alarm does not go off, either the battery is low or there may be other technical issues. Refer troubleshooting smoke alarm battery, page 27.

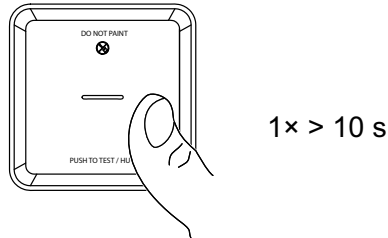


1x > 3 s

Testing the interconnected device(s)

It is possible to test all the devices simultaneously in an interconnected network with one operation.

1. Select any interconnected device.
2. Press and hold the Test/Hush button for more than 10 s until an alarm goes off on all interconnected devices.





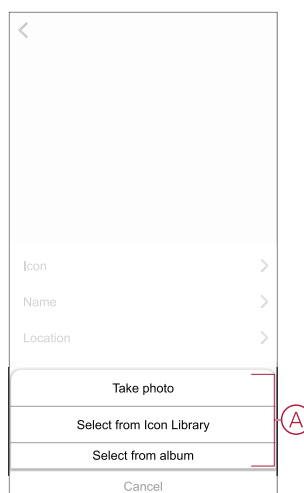
3. If there is no alarm triggered on the interconnected devices, check if the distance between each device is within the specification. Also check that the device is On and working properly. Refer troubleshooting smoke alarm battery, page 27.

Configuring the device

Changing the device icon



You can change the device icon using the ELKO Smart app.

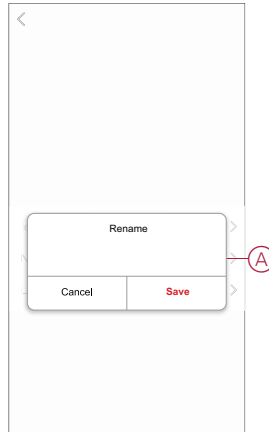
1. On the **Home** page, select the device for which you wish to change the icon.
2. At the top-right corner of the screen, tap .
3. Tap edit  next to the device name.
4. Tap **Icon** to view the menu.
5. In the slide-up menu, select any one of the following (A) to change the device icon:
 - **Take photo** - allows you to click a photo from the mobile camera.
 - **Select from Icon Library** - allows you to select an icon from the app library.
 - **Select from Album** - allows you to select a photo from the mobile gallery.



Renaming the device



You can rename the device using the ELKO Smart app.

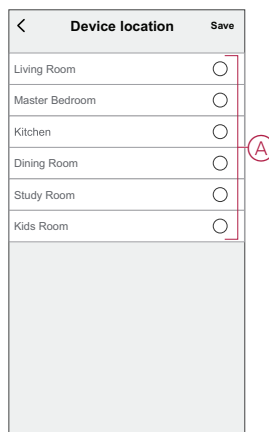
1. On the **Home** page, select the device for which you wish to rename.
2. At the top-right corner of the screen, tap .
3. Tap edit  next to the device name.
4. Tap **Name**, enter the new name (A) and then tap **Save**.



Changing the device location


You can change the device location using the ELKO Smart app.

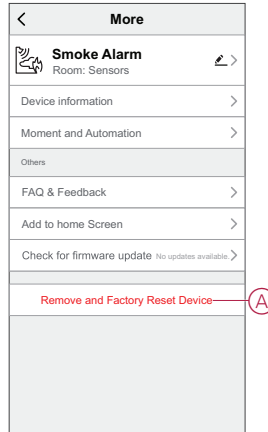
1. On the **Home** page, select the device for which you wish to change the location.
2. At the top-right corner of the screen, tap .
3. Tap edit  next to the device name.
4. Tap **Location**.
5. Select the desired location from the list (A) and then tap **Save**.



Removing the device from the app

You can remove a device from the device list using the ELKO Smart app, To remove the device:

1. On the **Home** page, tap **All devices** > **Smoke Alarm**.
2. Tap  to display more details.
3. Tap **Remove and Factory Reset Device (A)** and tap **Confirm**.



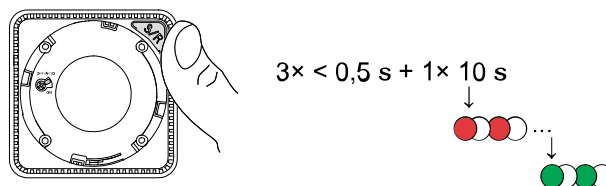
TIP: Alternatively, you can tap and hold on the **Smoke Alarm** on the **Home** page to remove the device.

NOTE: By removing the device, you will reset the device. If you still have a problem with the reset, then refer to [resetting the device](#), page 14.

Resetting the device manually

Short press (< 0,5 s) the Setup/Reset button 3 times and then long press the Setup/Reset button once for >10 s to reset the device to factory default mode.

IMPORTANT: All configuration data, user data and network data are deleted.



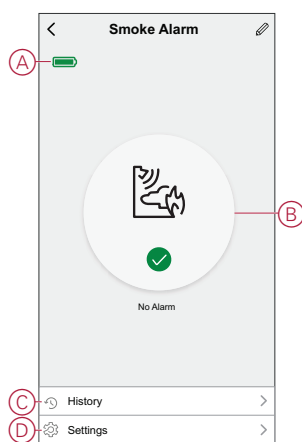
Using the device

The Control Panel of the smoke alarm allows you to view the current state of the device and allow you access the history and settings.

On the **Home** page, tap **All devices** > **Smoke Alarm** to access the control panel.

On the Smoke Alarm control panel page, you can see the following:

- Battery level (A)
- Current state of the device (B)
- History, page 15 (C)
- Settings (D) : LED brightness settings, page 16, Test alarm reminder, page 17.

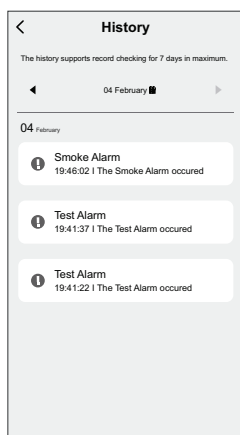


Checking the device history

Using the ELKO Smart app, you can monitor the smoke detection by accessing the device history.

To see the device history:

1. On the **Home** page, tap **All devices** > **Smoke Alarm**.
2. On the device control panel page, tap **History**.
3. In the **History** page, you can see the date, time, and type of alarm detected.



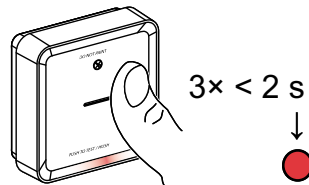
NOTE: The history supports record checking for 7 days maximum.

Setting LED brightness

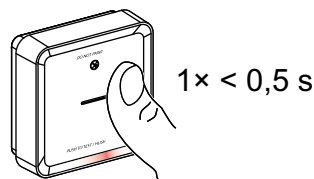
You can change the LED brightness level between minimum and maximum manually or by using ELKO app.

Changing the LED brightness manually

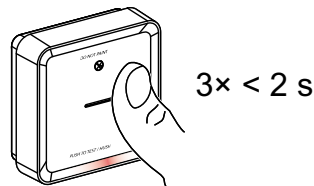
1. When the device is in standby mode, short press the test/hush button 3 times within 2 s.



2. When the Red LED is On, short press the Test/Hush button to switch between Min. and Max. LED brightness.

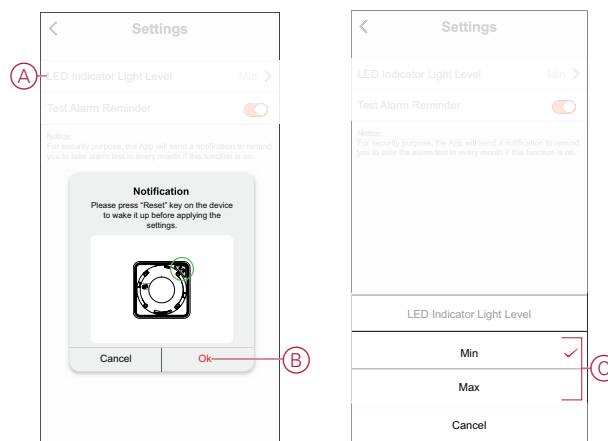


3. Again short press the Test/Hush button 3 times within 2 s to store the adjusted brightness level. Otherwise, you can wait 30s for the standby LED to turn off, then the brightness level will be saved.



Changing the LED brightness using app

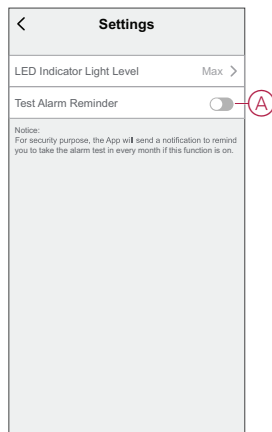
1. On the **Home** page, tap **All devices > Smoke Alarm**.
2. On the device control panel page, tap **Settings**.
3. Tap on **LED Indicator Light Level (A)**.
4. Follow the settings mentioned in the pop-up notification, then tap **Ok (B)**.
5. Select Min or Max indicator level (C).



Test alarm reminder

You can set the reminder for test alarm in the ELKO app.

1. On the **Home** page, tap **All devices > Smoke Alarm**.
2. On the device control panel page, tap **Settings**.
3. Tap the Test Alarm Reminder toggle switch (A) to turn on the reminder.



NOTE: The app will send a notification to remind you to take the alarm test in every month if this function is on.

Silencing the device

Hush feature

During an alarm event, identify the device(s) which is/are blinking Red LEDs then short press the Test/Hush button on the device to stop the alarm.

NOTE: In hush mode, the device will not detect smoke/high temperature for 10 minutes. After this time the device resumes to normal operation. During this time, the Standby LED blinks once every 8 s.

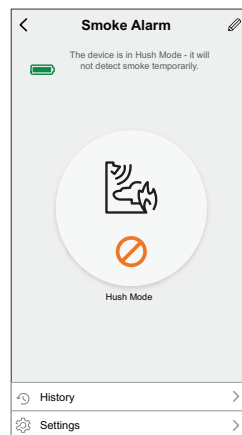
For instance, if smoke is detected and the device is set to hush mode, high-temperature detection will still be active.

In the event that smoke and high temperature are both detected at the same time, and the device is set to hush mode, then both smoke and high temperature detection will not work for the next 10 minutes.

In an interconnected group, if more than one device has blinking Red LEDs and an active alarm, short press the Test/Hush button on all devices. All interconnected devices stop alarming within 5 to 10 s.

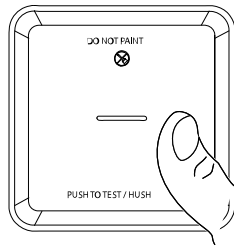
NOTE: Wait for 10 minutes before performing any test to avoid malfunctioning of the device.

Once the device is set to Hush Mode the status can be checked in ELKO app.



Temporarily disabling smoke detection

To temporarily disable the smoke detection of a device, short press the Test/Hush button once when the device is in Standby mode. The device will not detect smoke for 10 minutes. During this mode the Standby LED blinks once every 8 s.



1 × < 3 s

NOTE: The temperature sensor remains active even when the smoke detection is disabled.

Snoozing the device alerts

Low Battery

When the battery is low, the Standby LED blinks every 48 s, together with a beep. You can snooze the low battery indication for 10 hours by short pressing the Test/Hush button once.

IMPORTANT: The user must replace the device within 30 days after the first alert.

NOTE: You can always check the current battery level in the control panel.

Fault detection

When a device fault is detected, 2 beeps occur every 48 s together with blinking Standby LED. You can snooze the indication for 10 hours by short pressing the Test/Hush button once.

Alarm memory

In an interconnected group, the Standby LED on the triggered device blinks once every 2 s for 72 hours after the alarm has stopped. This allows the user to identify the device that was triggered by smoke/high temperature. Short press the Test/Hush button once to snooze the blinking LED for 10 hours.


False alarm


In an event of a false alarm in an interconnected group, it is recommended to identify the triggering device(s). These devices must be cleaned, serviced or replaced if necessary.

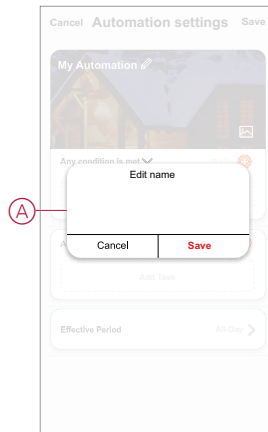
Creating an automation

Automation allows you to group multiple actions that are usually done together, triggered automatically or at scheduled times. Using the ELKO Smart app, you can create automations based on your needs.

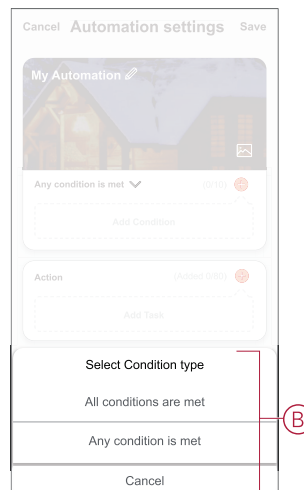
To create an automation:

1. On the **Home** page, tap the .
2. Go to **Automation** > **+** to create an automation.
3. Tap **Edit name**, enter the name of the automation (A) and tap **Save**.

TIP: You can choose the cover image that represents your automation by tapping .




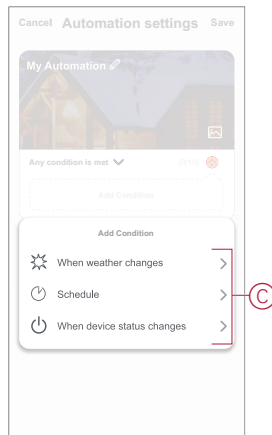
4. Tap **Any condition is met** to select any one of the condition type (B):
 - **All conditions are met**- The automation is triggered when all the conditions are met.
 - **Any condition is met**- The automation is triggered when at least one condition is met.



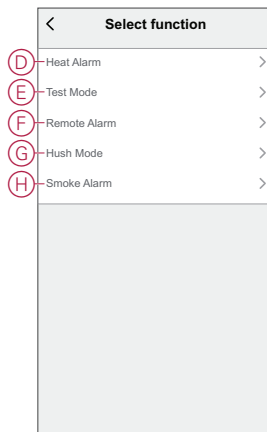
5. Tap **Add Condition** to display the slide-up menu.

6. In the **Add Condition** menu, you can do either or all of the following options (C):
 - **When weather changes** - Select the various weather settings
 - **Schedule** - Set the time and day
 - **When device status changes** - Select the device and it's function

NOTE: You can add one or more conditions using .




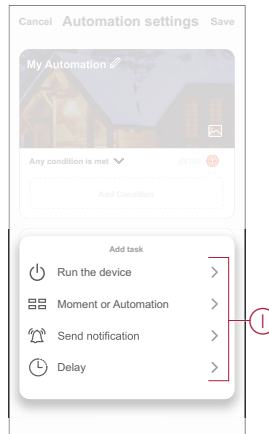
7. Tap **When device status changes > Smoke Alarm** and select either or all of the functions to add in the automation:
 - **Heat Alarm** - When the device detects rise in temperature (D)
 - **Test Mode** - When the device is in test mode (E)
 - **Remote Alarm** - When the device is triggered by interconnected device (F)
 - **Hush Mode** - When the device is in hush mode (G)
 - **Smoke Alarm** - When the device detects smoke (H)



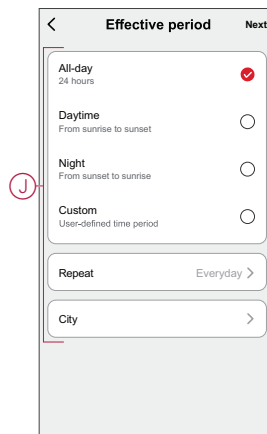
8. Tap **Add task** to display the slide-up menu.

9. In the **Add task** menu, you can do either or all of the following options (F):
- **Run the device-** Select the devices that you want to triggered.
 - **Moment or Automation-** Select the moment which you want to trigger or select the automation that you want to enable or disable.
 - **Send notification-** Turn On notification for the automation.
 - **Delay -** Set the delay time.

NOTE: You can add one or more actions using .



10. Tap on Effective period to set the time range for the automation. You can select any one of the following (G):
- **All-day - 24 hours**
 - **Daytime - From sunrise to sunset**
 - **Night - From sunset to sunrise**
 - **Custom - User defined time period**




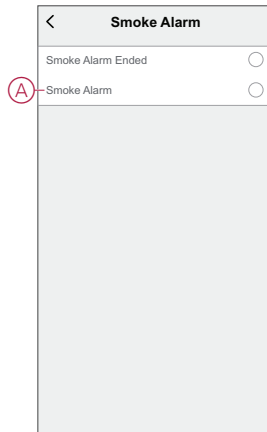
11. Once all the actions and conditions are set, tap **Save**.

Once the automation is saved, it is visible on the **Automation** tab. You can tap the toggle switch on the automation to enable it.

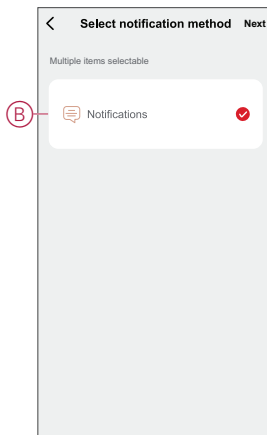
Example of an automation

This demonstration shows you how to create an automation to get notification on your app when the smoke is detected.

1. Go to **Automation** > **+** to create an automation.
2. Tap **Edit name**, enter the name of the automation and tap **Save**.
TIP: You can choose the cover image that represents your automation by tapping .
3. Tap **Add Condition** > **When device status changes** > **Smoke Alarm**.
4. In **Select function** menu tap on **Smoke Alarm** > **Smoke Alarm (A)**.

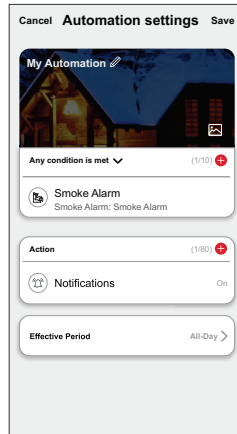


5. Tap **Add task** > **Send Notification** and select **Notifications (B)**.




6. Tap **Next**.

7. In the **Automation Settings** page, tap **Save**.



Once the automation is saved, it is visible on the **Automation** tab. You can tap the toggle switch on the automation to enable it.


Push notification will appear on the screen when the automation is triggered. You can also tap on  icon to access the notification history.

Editing an automation

To edit an automation:

1. On the **Automation** tab, locate the automation you want to edit and tap **⋮**.
2. On the **Edit** page, you can tap each item (such as dimmer, shutter, delay, temperature, etc.) to change the settings.

TIP:

- You can add one or more actions using .
- To delete an existing condition or action, slide each item towards left and tap **Delete**.

Deleting an automation

To delete an automation:

1. On the **Automation** tab, locate the automation that you want to delete and then tap **⋮**.
2. Tap **Delete** and tap **Ok**.

NOTE: After deleting an automation, the device action can no longer be triggered.

Maintenance and cleaning

A monthly inspection is recommended to help ensure the device is dust, dirt, and insect free. The device can be vacuumed (strongly recommended) or brushed with a soft brush to remove accumulated dust, dirt or kitchen grease. Apply a small amount of insect surface spray to a cloth and wipe around device(s) every 3 to 6 months to mitigate insect ingress..



IMPORTANT:

1. Always test the device after cleaning, for more information refer testing the device, page 11.
2. If necessary refer to the installation instruction for more information about installing the device.



<i>NOTICE</i>
<p>EQUIPMENT MAINTENANCE INSTRUCTIONS</p> <ul style="list-style-type: none">• Test the device regularly to ensure its functionality and the battery is in good condition.• Replace the device after 10 years from the date of manufacturing.• Do not open the device casing or repair yourself. There are no serviceable parts inside. <p>Failure to follow these instructions can result in equipment damage.</p>

LED Indications

Pairing

User Action	LED Indication	Status
Press the Setup/Reset button 3 times	LED blinks yellow yellow, once per second. 	Pairing mode is active for 30 seconds. When pairing is completed, LED glows green for some time before turning Off. 

Resetting

User Action	LED Indication	Status
Press the Setup/Reset button 3 times and hold it for > 10 s.	After 10 s, the LED starts blinking red. 	The device is in reset mode. It is reset to the factory settings after 10 seconds. The device then restarts and the LED starts blinking green before turning Off. 

Operating

Operating Mode		Standby LED	Alarming Sound	Duration
Normal mode / Standby mode		Blinks every 48 s	OFF	—
Alarm Mode	Local Alarm *	Blinks every 1 s	3 beeps every 4 s	—
	Interconnected alarm	OFF	3 beeps every 4 s	—
Test mode		1 blink every 1 s	3 beeps every 4 s	Until Test/Hush button is released
RF interconnection test		OFF	Continuous 3 beeps every 4 s	25 s
Hush mode		Blinks every 8 s	OFF	10 min
Low battery mode		Blinks every 48 s	1 beep every 48 s	End of life: replace smoke alarm
Fault mode		2 blinks every 48 s	2 beeps every 48 s	Until fault has been cleared
Snooze Mode	Low battery	Blinks every 24 s	OFF	10 hrs
	Fault	2 blinks every 24 s	OFF	10 hrs
	Alarm memory	Blinks every 48 s	OFF	10 hrs
<p>NOTE: For all the operating modes, LED blinks Red.</p> <p>* For local smoke alarms, all red LEDs blink, whereas, for local temperature alarms, only the standby red LED blinks.</p>				

Troubleshooting

Issue	Resolution/Action
Device does not sound when tested	<ol style="list-style-type: none"> 1. Confirm that the power switch is in ON position, or the device is installed correctly. If you are unsure then remove and reinstall the device. 2. Press Test/Hush button until an alarm sound is produced. Do not press consecutively. 3. If the problem persists or if you have questions about the warranty, contact customer care center.
Device beeps and Standby LED blinks every 48 s	Battery may be low or drained. Replace the device.
Device beeps twice and Standby LED blinks every 48 s	<ol style="list-style-type: none"> 1. Clean the device. Refer to Maintenance section. 2. If the problem persists or if you have questions about the warranty, contact customer care center.
Device produces alarm sound unexpectedly without smoke or steam	<ol style="list-style-type: none"> 1. Identify the triggered device, indicated by a blinking Standby LED and 3 beeps every 4 s. 2. Press Test/Hush button to pause the alarm sound. Interconnected device stops alarming in 5 to 10 s. 3. Clean the device. Refer to Maintenance. 4. Reinstall the device and test. 5. If the problem persists or if you have questions about the warranty, contact customer care center. <p>IMPORTANT: After an alarm event, the device that has blinking Standby LED every 2 s is the triggered device. Identify the device and follow steps 3 to 5.</p>

Technical Data

Battery Life	10 years
Operating Current	≤70 mA
Sensing Type	Photoelectric. This alarm contains NO radioactive material.
Operating Temperature	0 °C to 45 °C
Ambient Humidity	5% to 95%
Interconnecting	RF, max. 40 devices in one network
Communication protocol :	Zigbee, max. 40 devices in one network
Operating frequency	Zigbee: 2405 - 2480 MHz RF: 868 MHz
Wireless Range	40m indoor line of sight
Horn Level	85 dB at 3 m
Mounting Type	Mounting on ceiling and wall only
Dimensions (H × W × D)	89 × 89 × 33.5 mm
Leisure accommodation vehicles	Yes
Standard	EN 14604
Certification	Zigbee 3.0

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ELKO AS
Sandstuveien 68, 0680 Oslo
Pb 6598 Etterstad, 0607 Oslo
Norway
+47 67 79 39 00
support@elko.no
www.elko.no

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