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PLEASE READ THIS MANUAL CAREFULLY BEFORE INSTALLING THE DETECTOR

DESCRIPTION

The CDB-03 smoke detector is used for continuous monitoring of closed rooms to detect smoke, which may be the result of a fire starting. When the threat is detected, the detector emits a loud audible signal (min. 85 dB) and a visual signal in the form of a flashing diode. The detector is equipped with a precise and reliable photoelectric sensor. The detector can work independently but, thanks to the built-in Wi-Fi and the free NaviHome or TUYA app, it can be remotely accessed using Android or iOS phones and tablets. This way, in the event of an alarm occurring, the user will receive a notification on their phone even if they are away (the phone must be connected to the internet).

1. INSTALLATION

- Smoke detectors should be installed in the centre of the ceiling and not less than 50 cm away from the walls of the room
- The optimum solution for maximum protection is to place one detector in each room (except bathrooms, boiler rooms, etc.).
- As a minimum, at least one detector should be placed on each floor of the building.
- Make sure that the alarm signal will be clearly audible from other rooms.
- The detector should not be installed near windows, ventilation grilles or air conditioners, which can interfere with measurements, or in bathrooms where steam can trigger false alarms.
- The detector should not be installed in rooms with a lot of dust (e.g. boiler rooms) or in rooms that exceed the temperature and/or humidity limits (e.g. bathrooms).

Hereby, ZAMEL Sp. z o. o. declares that the radio equipment type CDB-03 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.zamel.com

3. INITIAL START-UP

- The battery supplied with the device is mounted in the detector, but it is placed in a protective film, so before mounting the detector, remove the battery, take off the film and place the battery back in the detector, which will cause its start up signalled by a short beep.
- The battery should be fitted with the correct polarity (Fig. 2)
- The battery supplied with the detector lasts for an average of 2 years of use and should be replaced with a new one after this time. The need to replace the battery is signalled by the detector through a short beep together with the blinking of the indication LED once every 40 seconds. (See section 6).
- Once the batteries have been installed, the detector switches to normal operating mode signalled by a short blink of the indication LED once every 40 seconds.

TECHNICAL DATA

Power supply voltage:	3 V DC (battery type: CR123A)
Detector type:	photoelectric (service life of 10 years)
Idle power consumption:	<9uA
Transmission power:	ERP< 20mW
Wi-Fi protocol:	802.11b/g/n
Sound level:	approx. 90dB
IP rating:	IP20
Compliance with standard:	EN 14604:2005/AC:2008
Operating temperature range:	-10°C + 55°C
Operating humidity range:	up to 93% RH
Dimensions:	76 x 76 x 28.5 mm

2. ASSEMBLY

Assembly is carried out as shown in Figure 1. First remove the rear base by turning it to the left and screw it to the wall at the correct height (see section 1) using the screws provided. Alternatively, instead of screwing the base with screws, it is possible to use the double-sided tape included in the kit to stick it to the wall. Place the detector onto the base fixed to the wall by turning it clockwise until the device clicks into place on the base.

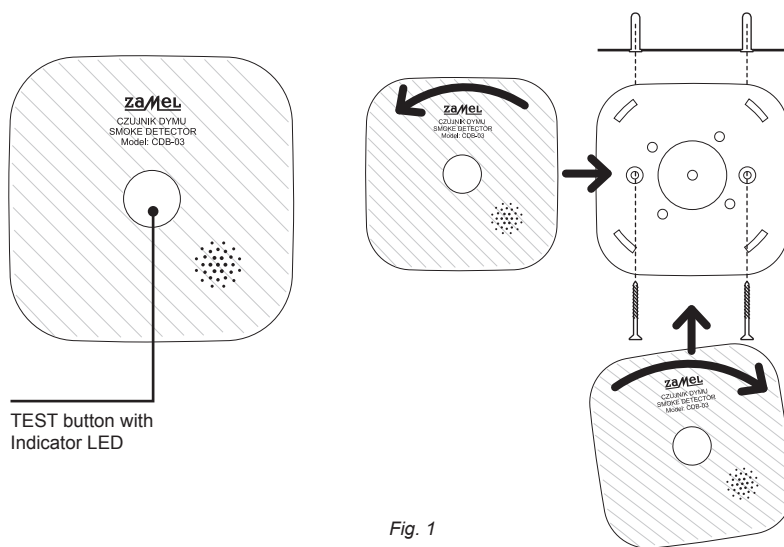


Fig. 1

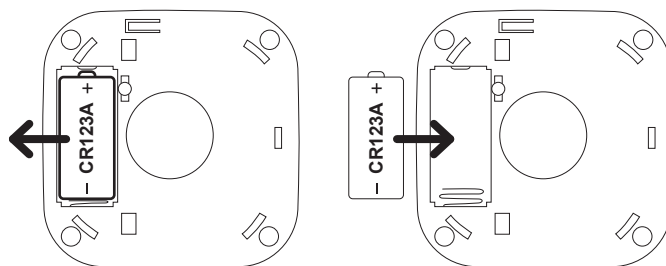


Fig. 2

CAUTION! SUBSTITUTING THE BATTERY WITH ANY BATTERY OF INCORRECT TYPE MAY CAUSE AN EXPLOSIVE HAZARD. DISPOSE OF USED BATTERIES AS STATED IN THE MANUAL.

4. TEST PROCEDURE

After installing the detector, press and hold the TEST button for approx. 1 second until the detector starts emitting an alarm signal and the red indicator diode starts flashing. This means that the device is operational. It is recommended that a similar test is repeated once a month to check the performance of the device.

5. ALARM

When the detector detects the presence of smoke in the room, a loud alarm sounds and the LED starts flashing and, if the detector was paired with Wi-Fi and the TUYA app, a corresponding notification is sent to the phone (via the TUYA app).

6. MESSAGES

- **NORMAL OPERATION** – LED flashes briefly once every 40 sec.
- **ALARM** – LED flashes, loud alarm signal is emitted
- **LOW BATTERY CHARGE LEVEL** – a short single flash of the LED and a single beep once every 40 sec.
- **DEVICE EMERGENCY** – short double flashes of the LED together with a double beep once every 40 sec.
- **WI-FI NETWORK FAILURE** – if the device has been configured to work with a Wi-Fi network and the NaviHome or TUYA application and for some reason cannot connect to the network, a network failure indication appears in the form of a triple flash of the LED and a beep once every 40 sec.



Do not dispose of this device with other waste! In order to avoid harmful effects on the environment and human health, the used device should be stored in designated areas. For this purpose, you can dispose of household waste free of charge and in any quantity to a collection point set up, as well as to the shop when you buy new equipment.

8. CONNECTION OF THE DETECTOR TO WI-FI AND THE TUYA APP.

The device can operate independently like a standard smoke detector, but its great advantage is that it can be connected to the internet and remotely notify the user of the device's alarm and status via application. To operate the smoke detector, user may use one two kinds of application. First of them is dedicated for Zamel products and it's name is NaviHome. And second one is standard TUYA application. One of them must be downloaded and installed on your smartphone or tablet from Google Play (Android) or App Store (iOS).

In order to correctly configure the detector with the NaviHome or TUYA application:

- Make sure the detector is in a location where there is Wi-Fi coverage of the router connected to the internet.
- Download the NaviHome or TUYA app from Google Play or the App Store and install it.
- If you do not have an account in the NaviHome or TUYA app, you must create one by clicking on the „Register” button (Fig. 3).



Fig. 3

- Once logged into the application, click „Add device” or „+” button in the top right corner (Fig. 4).

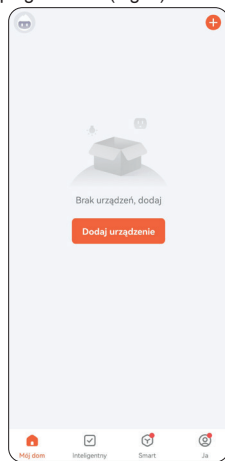


Fig. 4

When adding a new detector to the application, it is important that the phone is connected to the same Wi-Fi network with which the detector is to connect.

- In the list of devices on the left, select

the “Security detector” tab and then find the “Smoke Alarm” section and click on the “Smoke Alarm (Wi-Fi)” icon - (Fig.5).



Fig. 5

- In the application, select the Wi-Fi network with which the detector is to connect and enter the password for this network (Fig.6).



Fig. 6

The detector only works with 2.4 GHz Wi-Fi networks, 5 GHz networks are not supported and the phone must also be connected to the same 2.4 GHz network during configuration.

- Press and hold the TEST button on the front of the detector for approx. 5 seconds until the indicator LED on the detector starts blinking. Confirm this in the application (Fig. 7) by clicking on “Confirmed the indicator is blinking” and then “Blink Quickly” (Fig. 8).



Fig. 7

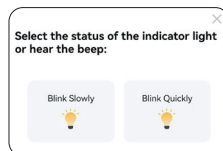


Fig. 8

- After a few tens of seconds, the detector should be added, which is confirmed by a message as shown in Fig. 9.

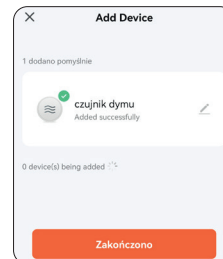


Fig. 9

- By clicking on the device symbol in the list of added devices (Fig. 10), you can access the current device status (Fig. 11). By clicking on the cogwheel symbol in the bottom right corner, a settings window opens (Fig. 12) in which you can specify which notifications from your detector are to appear on the phone. These can be:
 - “Smoke detector” – alarm on detected smoke,
 - “Change battery” – message on low battery and the need to replace it,
 - “Device fault” – alarm on device failure.
- Clicking on the “Full history” tab (Fig. 11) gives access to the history of events recorded by the detector.

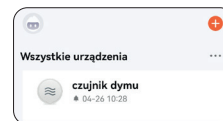


Fig. 10

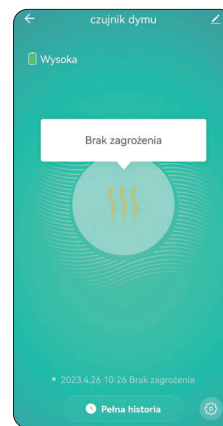


Fig. 11

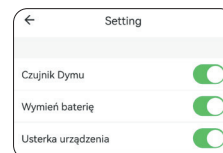


Fig. 12

Maintenance and notes on use

- clean the device regularly; do not allow the air inlet to become dusty,
- install the devices in places which meet temperature and humidity conditions,
- do not apply paint to the device when painting the walls,
- do not spray cleaning agents directly on the device,
- do not allow the detector to be flooded,
- install the detectors in accordance with the instructions (point 1 of this manual),
- test the device once a month,
- replace the battery in the detector immediately when it indicates low battery level (see section 6),
- replace the detector with a new one when it indicates sensor failure (see section 6) and absolutely after 10 years from the date of manufacture.

Keep in mind that smoke detectors significantly improve safety but do not provide a 100% guarantee of fire detection due to the possibility of failure, battery discharge and external factors affecting the detector. Therefore, it is always necessary to systematically test the detectors (in accordance with this manual) and minimise the possibility of a fire occurring.