



Livi VOC air quality detector

manual

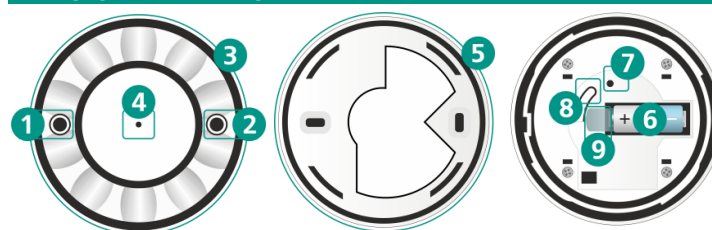
DESCRIPTION

The Livi VOC air quality detector (hereafter referred to as the detector) is designed to measure formaldehyde (HCHO), VOC/TVOCs, temperature, and humidity, providing accurate data for improved indoor air quality. The detector sends readings to the [Livi Smart Hub](#) (hereafter referred to as the hub).

The built-in sensors carry out measurements every 30 seconds. The detector automatically sends received data to the hub when it detects HCHO, VOC/TVOCs, the temperature changes by 1 °C and / or humidity changes by 5%. If all parameters do not change, then the detector sends updated readings once every 10 minutes.

The detector has a perforated enclosure, which provides unhindered circle air access to the built-in sensors.

DETECTOR APPEARANCE



1. Operation mode indicator
2. Connection indicator
3. Enclosure lid
4. Restart button

5. Mounting bracket
6. Battery CR123
7. Operation check button
8. Tamper button
9. Protective film

BINDING THE DETECTOR TO THE HUB

The detector must be unpacked and allowed to reach room temperature for at least two hours before handling if it was transported or stored at low temperatures.

1. Open the detector enclosure: hold the mounting bracket and turn the enclosure lid anticlockwise.
2. Pull the protective film out of the battery compartment. The operation mode indicator will start blinking red once the detector is switched to the binding mode.
3. [In the Livicom app](#), open the "Devices" screen. In the upper right corner of the screen tap **+** and select "Add Device". The connection indicator will blink green 5 times after successful binding.

The detector switches to the binding mode only for 60 seconds. If you have not bound it to the hub within this period, remove the battery from the detector for 30 seconds, and reinstall it (observing polarity). The detector will switch to binding mode again.

CHOOSING A LOCATION FOR THE DETECTOR

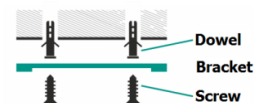
The detector can be mounted on a wall (using adhesive tape or screws from the supplied mounting kit), set upright on a shelf or lay down on a table. **DO NOT** install the detector outdoors, in places with high humidity, or at temperatures exceeding the operating temperature range (see "Specifications" table).

DETECTOR INSTALLATION WITH SCREWS

Open the detector enclosure (if it is closed): hold the ceiling mounting bracket (5) and turn the enclosure lid anticlockwise.

Fasten the mounting bracket at the selected location with two screws from the supplied mounting kit.

Close the detector enclosure: align marks on the enclosure lid and the mounting bracket, and then turn the lid clockwise to fasten the detector.



EVALUATING SIGNAL STRENGTH

Check the quality of the connection between the detector and the hub at the intended location of the detector. There are two ways to evaluate the signal strength:

1. In the Livicom app, on the detector settings screen.
2. With the help of the LED indication on the detector. Double-click on the tamper button and look at the detector indicators. Interpret the indication using the table below.

Good signal	The connection indicator blinks green 3 times
Average signal	The connection indicator blinks green twice
Poor signal	The connection indicator blinks green once
No connection	The operation mode indicator blinks red 4 times

CHECKING THE DETECTOR'S OPERATION

Check the operation of the detector after its installation: [in the Livicom app](#), open the "Devices" screen. Find Livi VOC detector and make sure that you see it's measurements for HCHO, VOC/TVOCs, temperature, and humidity.

Contact technical support (mail to: support@livicom.ru) if you do not see the measurements in the Livicom app.

DETECTOR MAINTENANCE

Keep the detector free of dust and dirt. Replace the battery as soon as possible after you receive a "low battery" notification in the Livicom app. Dust removal must be performed at least once a year.

Do not wipe the detector with substances containing alcohol, acetone, gasoline and other active solvents

DELETING THE DETECTOR (UNBINDING FROM THE HUB)

There are two ways to unbind the detector from the hub:

1. In the Livicom app, on the detector settings screen.
2. Using the tamper button (8). Remove the main battery from the detector for 30 seconds, then press the tamper button and while holding it, reinstall the main battery, observing polarity. Release the tamper button and quickly click on it until the operation mode indicator starts blinking red.

SPECIFICATIONS

Operating frequency	868 MHz
Radio communication range*	1000 m
Radio channel power	25 mW
Period of sending test events to the hub	2 minutes

Measured parameters	HCHO, VOC/TVOCs, temperature, humidity
Temperature measurement range	from -20 to +55 °C
Temperature measurement error	up to 1 °C
Humidity measurement range	from 0 to 100 %
Humidity measurement error	up to 5 %
Current consumption in sleep mode	3 µA
Current consumption in active mode	up to 30 mA
Power source (3 V)	lithium battery CR123A
Battery life**	up to 10 years
Operating temperature range	from -20 to +55 °C
Relative humidity	no more than 80% at 25 °C
Dimensions	110 x 110 x 58 mm

* Radio communication range is the maximum distance between the hub and the detector in line of sight and without interference.

** Battery life depends on the intensity of radio communication between the detector and the hub. The maximum battery life can be achieved if the detector is operated at the temperature of 25 °C, relative humidity no more than 80% and without vibration load.

SUPPLY SET

Livi VOC air quality detector	1
Mounting kit	1
Lithium battery CR123A (3 V)	1
Protective film for the battery	1
Packaging	1

SOUND AND LED INDICATION

Binding mode	The operation mode indicator blinks red for 1 minute
Return to normal state	The connection indicator blinks green once
Confirmation of successful binding	The connection indicator blinks green 5 times
Enclosure of the detector is open	Short double beep

WARRANTY

The manufacturer LLC "NPP Stels" guarantees that the detector meets AGNS.425449.001 TU technical requirements, provided that the consumer complies with the conditions of transportation, storage, installation and operation.

The warranty period is 5 years from the manufacturing date. The warranty does not apply to batteries.

The warranty does not cover the following cases:

1. Non-compliance with the intended operating conditions;
2. Mechanical damage to the detector;
3. Repairs to the detector by a third party (a person or a company other than the Manufacturer).