LIVI

Humidity and temperature sensor
## Livi HTS

manual

DESCRIPTION

The Livi HTS humidity and temperature sensor (hereafter referred to as the sensor) is designed to measure temperature and humidity at the installation location. The sensor sends readings to the Livi Smart Hub (hereafter referred to as the hub).

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

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

SENSOR APPEARANCE
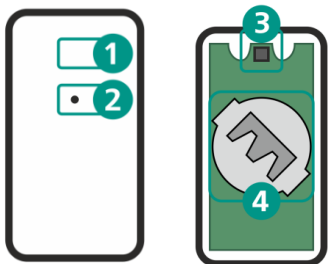
1. LED indicator
2. Hole to access the binding mode button
3. Humidity sensor
4. Battery

BINDING TO THE HUB

The sensor 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. Insert a thin paper clip into the hole (2) in the sensor enclosure and press the binding mode button once. The sensor indicator will start blinking blue.
2. In the Livicom app, open the "Devices" screen. In the upper right corner of the screen tap "+" and select "Add Device".

The indicator (1) will blink green 5 times after successful binding.

The sensor switches to the binding mode only for 60 seconds. If you have not bound it to the hub within this period, insert a thin paper clip into the hole in the sensor enclosure, press the button and hold it until the sensor indicator starts blinking blue. The sensor will switch to binding mode again.

CHOOSING A LOCATION FOR THE SENSOR

DO NOT install the sensor outdoors, in places with high humidity, or at temperatures exceeding the operating temperature range (see "Specifications" table).

EVALUATING SIGNAL STRENGTH

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

1. In the Livicom app, on the sensor settings screen.
2. With the help of the LED indication on the sensor. Insert a thin paper clip into the hole in the sensor enclosure (2) and press the binding mode button twice. Interpret the indication using the table below.

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

SENSOR INSTALLATION

The sensor 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.

Follow these steps to mount the sensor with screws on the wall:

1. Open the sensor enclosure:

   insert a flat-blade screwdriver into the hole between the lid and the base of the enclosure, and flip off the lid by turning the flat-blade screwdriver left or right.
2. Fasten the base of the sensor enclosure at the selected location using screws from the supplied mounting kit.
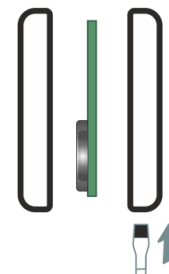3. Close the sensor enclosure.

MAINTENANCE

Keep the sensor free of dust and dirt. Replace the battery as soon as possible after you receive a low battery notification in the Livicom app.

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

REPLACING THE BATTERY

1. Open the sensor enclosure:

   Insert a flat-blade screwdriver into the hole between the lid and the base of the enclosure, and flip off the lid by turning the flat-blade screwdriver left or right.
2. Pull out the sensor board, using the flat-blade screwdriver to unbend retaining clips.
3. Remove the battery and install a new CR2032 battery, observing polarity.
4. Reassemble the sensor by following the above steps in reverse order.

DELETING THE SENSOR (UNBINDING FROM THE HUB)

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

1. In the Livicom app, on the sensor settings screen.
2. Using the binding mode button. Insert a thin paper clip into the hole in the sensor enclosure (2), press the binding mode button and hold it until the sensor indicator starts blinking blue.

SPECIFICATIONS

Operating frequency	868 MHz
Radio communication range*	1000 m
Radio channel power	20 mW
Period of sending test events to the hub	2 minutes
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 CR2032
Battery life**	up to 2 years
Operating temperature range	from 0 to +55 °C
Relative humidity	no more than 80% at 25 °C
Dimensions	45 x 24 x 12 mm

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

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

SUPPLY SET

Humidity and temperature sensor Livi HTS	1
Mounting kit	1
Lithium battery CR2032 (3 V)	1
Packaging	1

LED INDICATION

Binding mode	The indicator blinks blue for 1 minute
Confirmation of successful binding	The indicator blinks green 5 times

WARRANTY

The manufacturer LLC "NPP Stels" guarantees that the sensor meets AGNS.421453.001 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 sensor;
3. Repairs to the sensor by a third party (a person or a company other than the Manufacturer).