

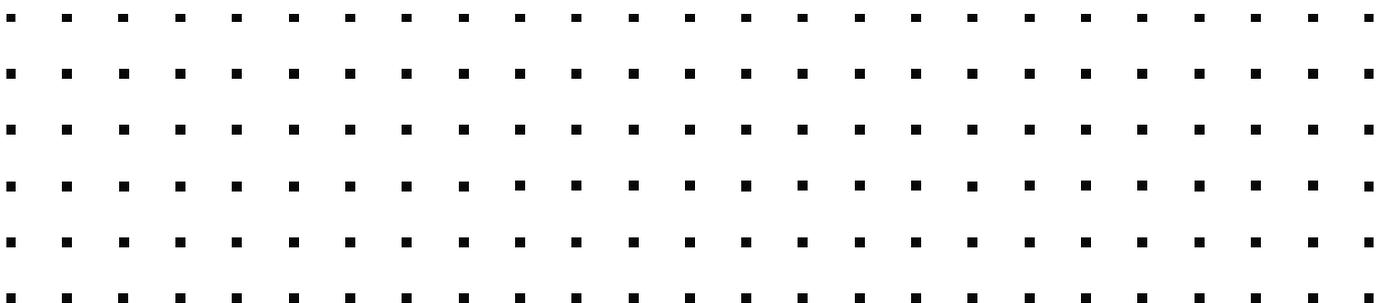


Aranet NH3 sensor kit

assembling instructions

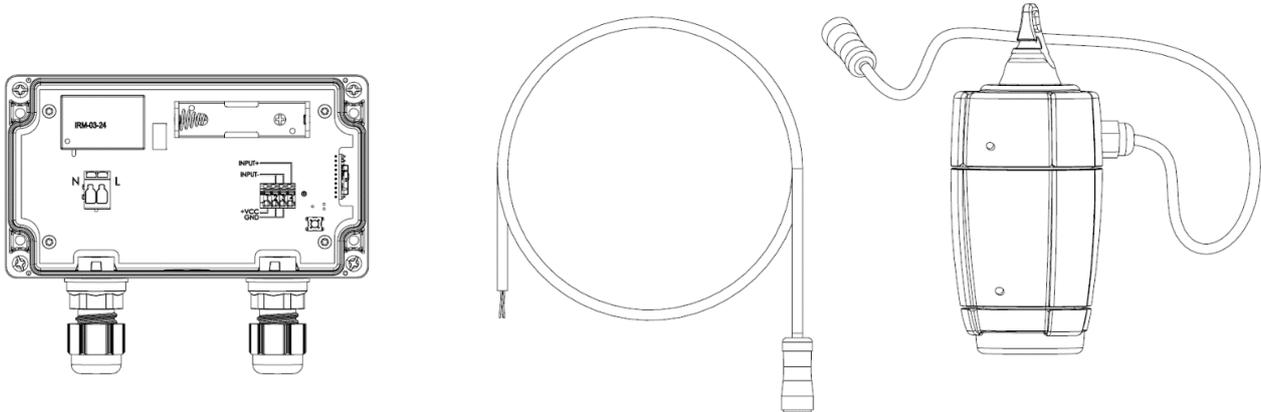
Contents of the kit and how to
guide on connecting sensor,
transmitter, and Aranet base
station.

2022-11-09



What is included in the Aranet NH₃ kit?

NH₃ kit consists of **Aranet 0-10 VDC transmitter with a 24 VDC power supply (datasheet)** and a **DOL53 Ammonia sensor (datasheet)**, as well as relevant details for the sensor and transmitter to be connected. The cable to connect the transmitter to the mains power is not included.



Visual 1. Contents of the NH₃ sensor kit

Assembling the kit

Things to know before starting the pairing procedure

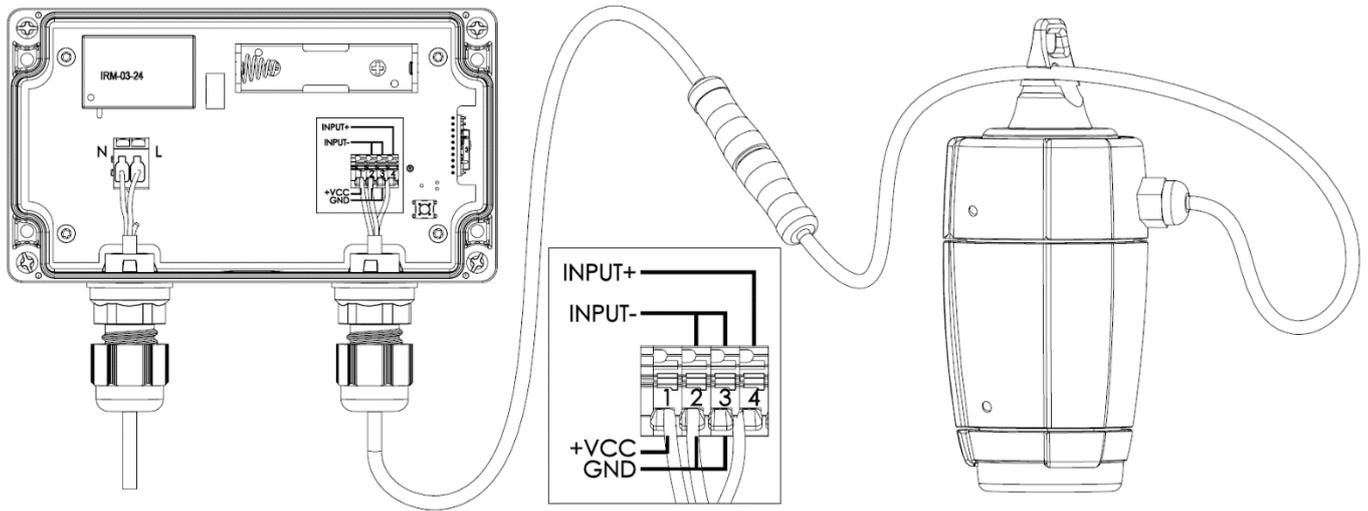
- It is possible to pair the transmitter to the base station with or without the sensor connected.
- To pair the transmitter, the transmitter must be near the base station (max 20 m).
- Pairing the sensor with the battery ensures an interrupted signal to the base station during the whole installation process, as well as connection to the sensor in case of an electricity outage or sensing element failure.
- When installing and placing the sensor note that the cable must be routed in a manner to obtain a “water/drip loop” for water to drop off. Do not stress the cable.
- If you experience any difficulties, get in touch with support@aranet.com.

First step: how to pair the transmitter to the base station with batteries (recommended)

1. Have the transmitter (lid opened) and 1x AA battery ready.
2. Unscrew and take off the transmitter’s lid.
3. Open the Sensorhub application (ensure that you have the latest firmware upgrade).
4. Open the section “SENSORS” and there choose the preferable measurement interval.
5. Click the “PAIR SENSOR” button on the computer screen and then immediately insert the batteries or insert batteries and click the “PAIRING” button on the transmitter (left corner).
6. The sensor will be paired and appear in the category “SENSORS”.
7. You can finish your sensor setup and screw the lid back

Second step: connect the transmitter to the sensor

Connect the DOL53 sensor to the Aranet transmitter with the cable included in the installation kit. Connect the wires to the terminals in the junction box.



Visual 2. Connecting the Aranet transmitter with the NH₃ sensor

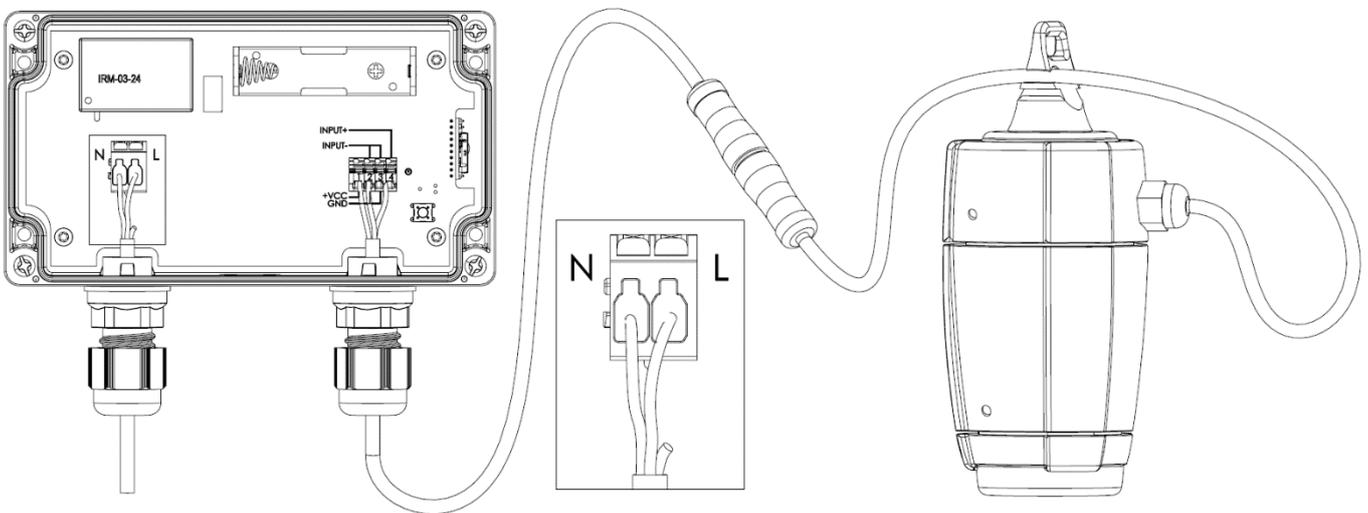
Aranet 0-10 V transmitter with 24 VDC power supply		DOL 53 NH ₃ sensor		
Slot no. in the junction box		Corresponding wire color		Wire color
1	+VCC	White	+24 V	White
2, 3	GND, INPUT -	Green/yellow	GND	Green/yellow
4	INPUT+	Brown	0 – 10 V output	Brown

Third step: connect the kit to the mains power cable

- Make sure the cable is not connected to the power mains. Unscrew and take off the transmitter’s lid.
- Connect the cable to the transmitter as shown in the scheme below.
- To ensure high IP protection, the cable must be directly connected to mains power.
- After finishing the assembly, tighten the cable glands to ensure water protection.
- Screw back the transmitter’s lid.

Connection to mains power	Wires
N – Neutral	Blue
L – Live	Brown
GND*	Green/yellow

*The wire should be clipped at the end.



Visual 3. Connecting the sensor kit with the mains power