



SHOWN: SPARK WL-50 DISPLAY AND SENSOR · DISPLAY SHOWS ALL SEGMENTS LIT

LORA · WI-FI

● SPARK WL-50 · TANK LEVEL MONITOR

The tank level. On your wall.

An ultrasonic sensor on the tank sends the level by LoRa radio to a colour display in the house. The display joins your Wi-Fi, so you see the same level in the Tuya Smart app. It sounds an alarm and can run the pump for you.

● LoRa sensor link

● Wi-Fi · Tuya Smart app

● Depth up to 5 m

● Level % and depth

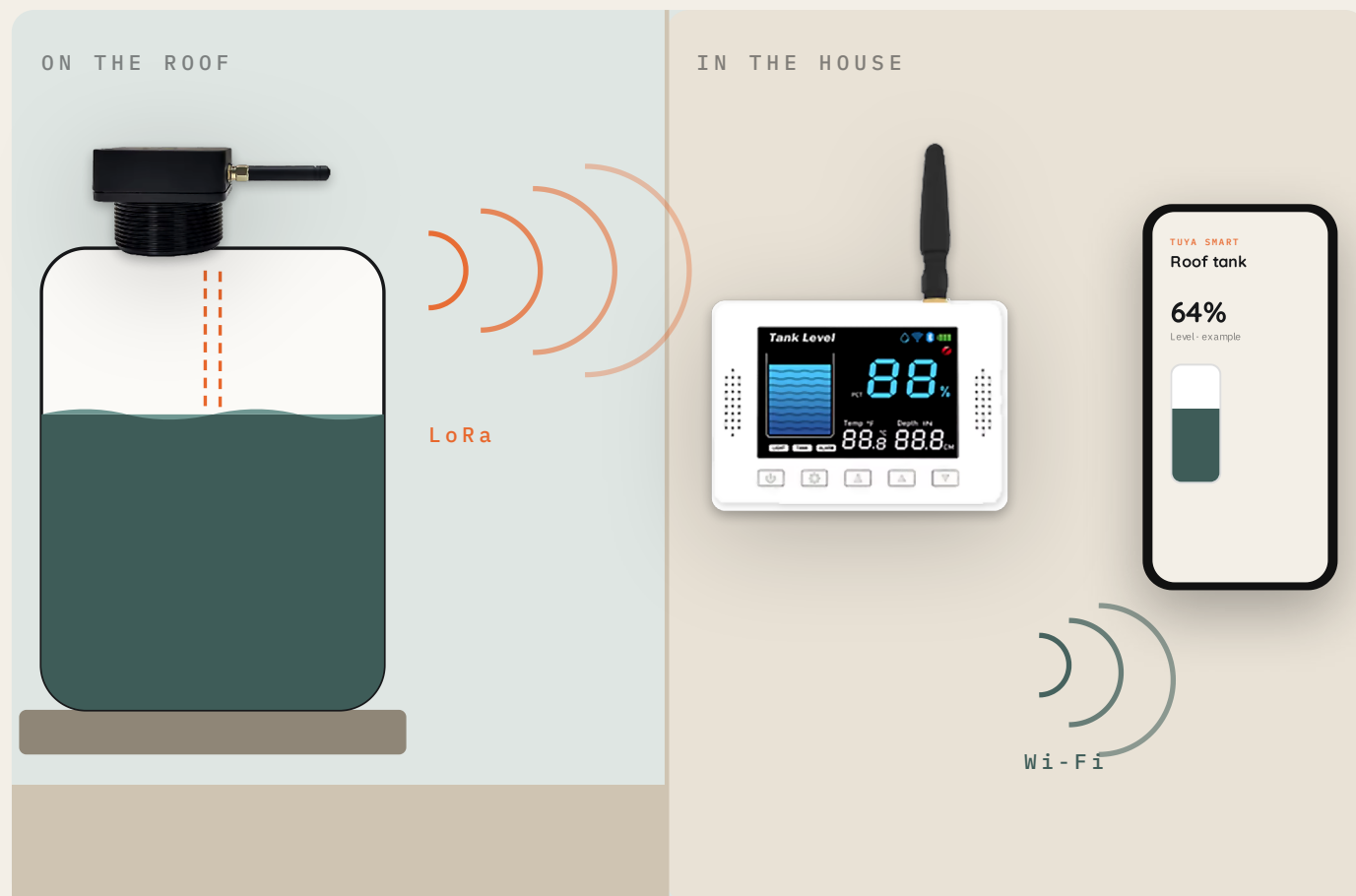
● Buzzer alarm

● Automatic pump control

● Room temperature

HOW IT WORKS

Sensor on the tank. Screen in the house.



WL-50 sensor

On the tank lid. Ultrasonic.

WL-50 display

On a shelf or wall indoors.

Tuya Smart app

Same level, anywhere.

1 Measure

The sensor on the tank lid measures the water with ultrasound. Nothing touches the water.

2 Send

It sends the reading to the display by LoRa radio. The blue drop on the screen shows the link is up.

3 See

The display shows the level, the depth and the room temperature, and shares them to the Tuya Smart app.

If the LoRa link drops, the depth on the display flashes after 30 seconds, so you know the reading is not live. The display needs 2.4 GHz Wi-Fi; 5 GHz is not supported.

THE DISPLAY

Everything about the tank. At a glance.



Full

Above 99%, the level shows FU.



Wi-Fi icon

Flashing: pairing. Solid: connected. Off: not connected.



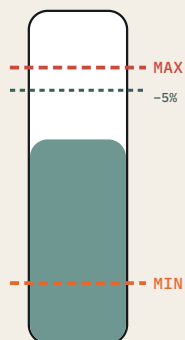
Keeps your settings

Five settings stay saved after a power cut.

Each key press gives a short beep. A long press is 3 seconds, confirmed by a second beep.

ALARM AND PUMP

Never run dry. Never overflow.



1 Set a Max and a Min level

On the display or in the app, as a percentage. The two stay in sync: change one and the other follows.

2 The buzzer warns you

Above Max or below Min, the display beeps. It stops by itself when the level is back in range. Press any key to mute it, or hold ③ for 3 seconds to turn the buzzer on or off.

3 The pump runs itself

Below Min, the pump starts automatically. It stops at Max – 5 %. Example: with Max at 60 %, the pump stops at 55 %.

IN THE TUYA SMART APP

The same tank, on your phone.

See the level from anywhere. In the app you can set Max and Min, the installation height and the sensor-to-full-line distance. Other settings are made on the display.

SETTING

Set Max 90%

Set Min 10%

Installation height 2.000 m

Sensor to full line 0.100 m

EXAMPLE VALUES



Screen modes

Hold ① for 3 s: always on, or off after 15 seconds. Use + and – for brightness.



Room temperature

Shown on the display next to the depth.



Power cut? No reset

Installation height, level height, upper and lower limits and installation depth stay saved.



Link check

If the LoRa link drops, the depth flashes after 30 seconds.

INSTALLATION

Screw it into the lid. Pair it once.



Cut a 58 mm hole

In the top of the tank, then screw the sensor in. Max installation height: 5 m.



Pair sensor and display

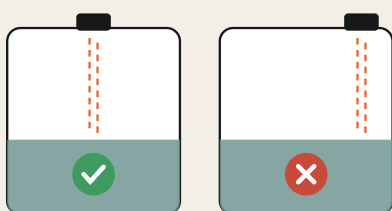
Power on each one while holding its pairing button. The display's level flashes; the sensor's blue light turns solid.



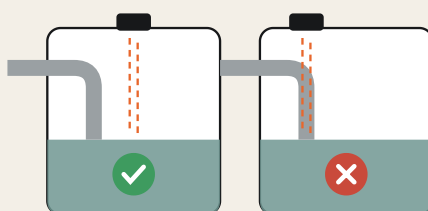
Add it to the app

Hold  for 3 s while powered on, then add the device in Tuya Smart with Bluetooth and 2.4 GHz Wi-Fi on.

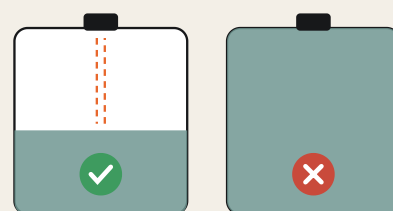
WHERE TO PUT THE SENSOR



In the middle of the tank

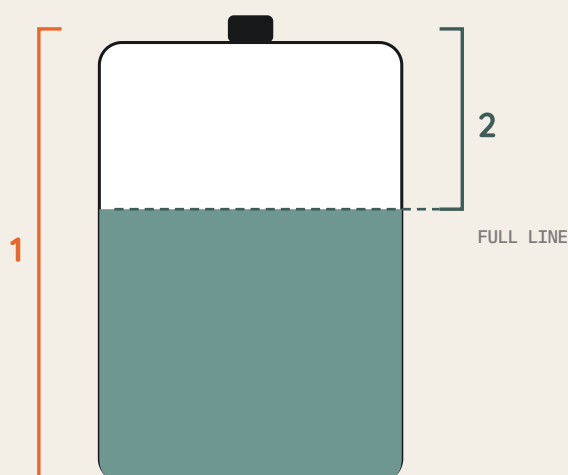


Away from the inlet and the wall



Never touching the liquid

TWO DISTANCES TO SET



1

Installation height

From the sensor to the bottom of the tank. Up to 5 m. On the display it is set in steps of 5 cm.

2

Sensor to full line

From the sensor to the full level. At least 0.1 m, the blind zone of the sensor.

!

For a clean reading

Keep the beam clear: no tilted surfaces, small objects or foam under the sensor.

AT A GLANCE

Two devices. One clear picture.



LoRa link
Sensor to display.



Wi-Fi
Tuya Smart app.



Up to 5 m
Tank depth.



Buzzer
High and low alarm.



Pump
Automatic control.



Temperature
Room, on screen.

SPECIFICATIONS

Model	Spark WL-50	Detection angle	Horizontal 1.7° · vertical 12–29°
Kit	Ultrasonic sensor + LCD display	Detection cycle	≥ 1 s
Sensor to display	LoRa radio	Power supply	DC 5 V
Display to home	Wi-Fi 2.4 GHz · Tuya Smart / Smart Life	Current	< 150 mA
Measuring range	10 cm – 5 m	Operating temperature	–10 to 70 °C
Blind zone	< 10 cm	Sensor cable	3 m, waterproof DC2.0 connector
Accuracy	±(1 % of reading + 10 mm) at 20 °C	Power adapters	5 V, 1.5 m cable
Ultrasonic frequency	40 kHz	Mounting hole	About 58 mm

IN THE BOX



- 1

WL-50 display
Colour LCD with antenna, buzzer and five keys.
- 2

WL-50 sensor
Ultrasonic, with antenna and a 3 m cable.
- 3

Two power adapters
5 V, one for the display and one for the sensor.

PART OF THE SPARK HOME

Check the tank from the same Tuya Smart app as your Spark switches, locks and panels.

