



QS-01 · WALTERO MIMIR GUIDE

W-Sensor Installation Quick Start

Installing a W-Sensor and verifying the device in the Mimir dashboard

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Before you start

This guide takes a fresh W-Sensor from its box to a live, reporting installation in roughly half an hour. Have the following ready before you begin.

What you need

- **W-Sensor** with charged batteries (three CR123A cells) and the matching mount or adapter for the meter you will instrument.
- **Waltero Setup app** installed on your phone (iOS App Store or Google Play).
- **Mimir account credentials** — email and password for the same organization the sensor will be paired into.
- **Access to the meter** — register cover removable, digits clean enough to read.
- **A thin pointed tool** (small flat-head screwdriver) for the recessed config and trigger buttons.
- **APN credentials** if your cellular carrier requires them, or the local **Wi-Fi SSID and password** if the install will run over Wi-Fi.

Tip. First install on a new site? Bring a second sensor as a spare. Connectivity varies room-to-room and the easiest fix for a stubborn install is to swap and re-test.

Workflow at a glance

1. **Mount** the adapter on the meter (1 minute).
2. **Pair the sensor** in the Setup app and confirm the reading (5–10 minutes).
3. **Verify in Mimir** that the device is online and reporting (2 minutes).
4. **Set up a low-battery alarm** so you hear about the next service before it becomes urgent (2 minutes).

The rest of the time goes to network registration and the first cloud sync — mostly waiting.

Step 1 — Mount and align

Open the meter's register cover and fit the Waltero mount on top. The mount snaps over the register; rotate it so the sensor's camera will look **straight down at the digits** when seated. A misaligned mount is the single most common cause of failed digit reads later.



Figure 1: Mount and adapter fitted on the open meter, digits visible

Place the W-Sensor on the mount and rotate it so the **Waltero logo on the lid points the same direction as the digits** below. Press the sensor down firmly so it seats on the mount.

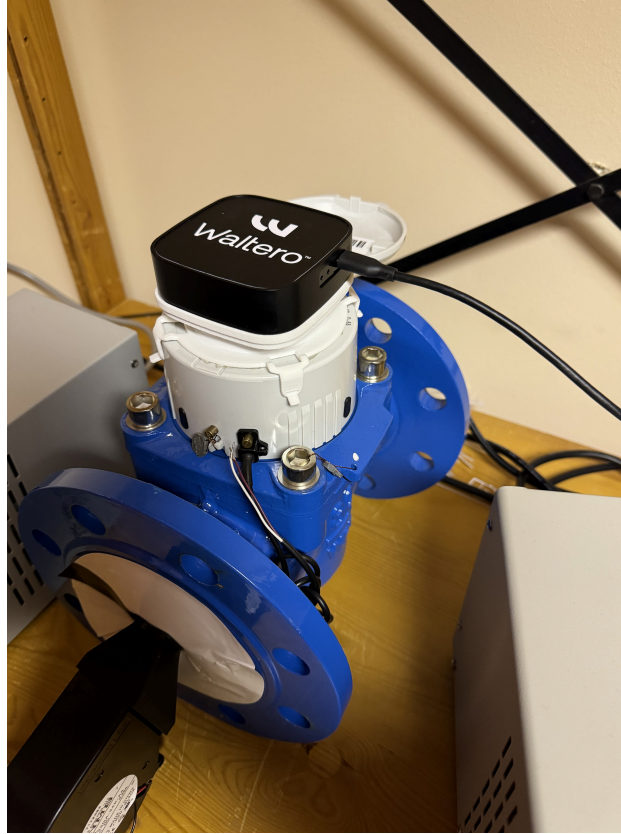


Figure 2: W-Sensor seated on the mount with the Waltero logo aligned to the meter digits

The logo orientation is what tells the camera which way is "up." Get it wrong and the reading will not parse.

Step 2 — Pair with the Setup app

Wake the sensor

The config and trigger buttons are recessed in the side of the sensor — use the thin tool. To put the sensor into setup mode:

1. Press and hold **config**.
2. While still holding config, briefly press and release **trigger**.
3. Release config.



Figure 3: Getting Started screen with button instructions

The status light flashes for 2–3 seconds to confirm setup mode is active. The sensor now broadcasts a temporary Wi-Fi network named W-Sensor-XXXX, where XXXX is its serial number. You have about three minutes before it goes back to sleep — if the timer runs out, just wake it again.

Walk through the app

1. **Log in** to the Waltero Setup app and confirm your region.
2. **Choose Cellular Setup** (default) or **Wi-Fi Setup** depending on how the sensor will connect.
3. **APN configuration** — tap Default unless your carrier has given you specific credentials.
4. **Pick the organization** the sensor belongs to from the dropdown.
5. **Scan the QR code** on the back of the sensor. The header changes to show the serial number when recognized.
6. **Connect** to the sensor's temporary Wi-Fi network when prompted. Your phone returns to normal Wi-Fi after setup completes.

7. **Pick the meter type** from the list (for example HB X1000, Generic analog meter). Use No Type if nothing matches.
8. **Take a meter reading** — drag the brightness slider until the digits are sharp, then tap Run Reading.
9. **Confirm the detected reading** matches the meter. If a digit is wrong, retake the photo with different brightness or framing.
10. **Set unit and multiplier** — m³, Liters, Gallons, ft³, or kWh. The preview at the top shows how the final reading will look.

When the app shows Device Configured and then Sensor Pairing — Device registered successfully, the sensor has switched back to its production network and registered itself with the Waltero cloud.

Finish the cloud settings

On the Meter Details / Cloud Settings page, set:

- **External device ID** — a stable identifier you will use to find this sensor in Mimir later (typically the meter ID or installation address).
- **Location** — drag the map pin to where the sensor is installed and tap the padlock to lock the position.
- **Installation photo** — take a fresh photo showing the sensor mounted on the meter from a clear angle.
- (Optional) **Name and description** — a friendly name and free-text notes.

Tap **Save**. The Setup Complete screen confirms the sensor is live in Mimir.

Step 3 — Verify in Mimir

Open the Mimir dashboard and switch to the organization the sensor was paired into. The new sensor should appear within a minute or two on the **Devices** page.

What to check	Where to look	What “good” looks like
Sensor is online	Devices · status column	Green / Online badge
First reading received	Devices · last-seen column	A timestamp within the last few minutes
Reading is correct	Device detail · latest reading	Matches the value you confirmed in the app
Signal is acceptable	Device detail · connectivity	RSSI \geq 8, RSRP \geq -110 dBm
Installation photo present	Device detail · gallery	Your install photo from Step 2

If anything is missing, press the **trigger button once** on the sensor to force an immediate sync. The status light goes solid for 1–2 seconds while it connects.

Step 4 — Set a low-battery alarm

While you have the install fresh in mind, configure the pre-built **low battery** alarm so the team is notified before the cells need replacing.

1. Open **Management** → **Alarms**.
2. Pick the Low battery preset (triggers at **2700 mV** — well before total drain).
3. Add the email address that should receive the notification.
4. Save.

You will get a heads-up email well before the sensor stops reporting, with enough lead time to schedule a battery replacement.

What to expect after install

For the first few hours, the sensor reports more frequently than its production schedule — this is normal and lets you validate the install. After that it falls back to its configured interval (default once per hour).

Things that are normal:

- The dashboard timestamp may lag the first two connections — date and time sync over the next sync cycle.
- The first 2–3 readings may show a Pending badge while the cloud finishes building the device's history.
- Battery voltage drops sharply in the first hour, then stabilizes.

Things that are **not** normal:

- No reading after 30 minutes and a trigger-button press — see Common pitfalls below.
- Signal values consistently below RSSI 5 or RSRP -115 dBm — relocate the antenna or fit an external antenna.
- Repeated unable to register messages in the device detail page — usually an APN or SIM issue.

Common pitfalls

- **QR scan won't recognize the label.** Clean the QR sticker and reduce glare. Move closer; the scanner works best at about 10 cm.
- **Phone won't join W-Sensor-XXXX.** The setup network only stays up for ~3 minutes. Wake the sensor again (config-hold + trigger) and re-try.
- **Reading is parsed wrong.** The Waltero logo is not aligned to the digits, or the digits are dirty or shadowed. Retake from the Confirm Reading screen — don't accept a wrong value just to finish.
- **Sensor doesn't connect after install.** Try outdoors or attach an external antenna. Cellular coverage varies sharply even within a single room.
- **Dashboard never shows the device.** Confirm you selected the correct organization in step 2.4. The sensor will not appear under a sibling organization.

Where to go next

This guide gets a single sensor live. For wider deployments, see:

- **AP-01 — Waltero Setup App: 18-step install** (the full per-screen walkthrough).
- **FH-06 / FH-07** — Wi-Fi and APN setup, including the fallback procedure when the app cannot be used.
- **MP-02 — First Fleet Deployment** (bulk pairing, alarm rules, automations).
- **TS-01 — Field troubleshooting** (symptom-first decision tree for failed installs).
- **RF-01 — Signal & connectivity reference** (RSSI / RSRP / RSRQ thresholds and antenna tuning).