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Blindsmart 214C

Blindsmart Zigbee Smart Water Meter 214C User Manual

Model: 214C | Brand: Blindsmart

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Blindsmart Zigbee Smart Water Meter 214C. This device integrates precise water flow measurement with a remote-controlled shutoff valve, offering comprehensive water management for your home or property. It is designed for use with a Tuya Zigbee Hub and can also be integrated with Home Assistant.

2. Product Overview

The Blindsmart Zigbee Smart Water Meter 214C is an all-in-one solution for monitoring and controlling water usage. It features a built-in LCD display for local readings and connects to a Zigbee hub for remote monitoring and control via a smartphone application.



Image: The Blindsmart Zigbee Smart Water Meter 214C, highlighting its key features including app remote control, measurement capabilities, LCD display, and valve control.

Key Features:

- **All-in-One Smart Water Monitor:** Combines precise Class 2 accuracy flow measurement with a built-in remote control valve.
- **LCD Screen:** Displays total consumption, flow rate, and pipe temperature directly on the device.
- **Remote Control:** Monitor and shut off water remotely via the Tuya App.
- **Battery-Powered:** Equipped with a 9000mAh built-in lithium battery, eliminating the need for external power outlets.
- **Smart Home Integration:** Seamlessly connects to a Tuya Zigbee Hub and can be integrated with Home Assistant via ZHA (add-on required).
- **Robust Design:** IP68 waterproof rating for outdoor or wet indoor environments. Supports horizontal or vertical installation.
- **Proactive Alerts:** Configurable alerts for abnormal flow to detect leaks and prevent waste.

- **Detailed Data Tracking:** Tuya App stores consumption history (hourly for 7 days, daily for a year) for usage analysis.

Package Contents:



Image: The contents of the product box, showing the main water meter unit, two brass adaptors, and two seal rings.

- Smart Water Meter (Model 214C)
- Adaptors (x2)
- Seal Rings (x2)

3. Setup and Installation

Proper installation is crucial for accurate readings and reliable operation. Professional installation is recommended.

Prerequisites:

- A Tuya Zigbee Hub is required for the water meter to function with the Tuya Smart App.
- For Home Assistant integration, an additional add-on is necessary. Contact customer service for details.
- Ensure the installation location is accessible and suitable for plumbing work.

Installation Guidelines:



Image: Detailed installation guidelines showing pipe length requirements and acceptable mounting orientations (horizontal, vertical upward) and unacceptable orientations (vertical downward, high in pipe).

1. **Flow Direction:** Ensure the arrow on the meter points in the same direction as the water flow.
2. **Space Requirement:** Leave sufficient space around the meter for future maintenance.
3. **Accurate Readings:** For precise measurements, ensure straight sections of pipe before and after the meter: at least 10 times the pipe diameter before the meter, and at least 5 times the pipe diameter after the meter.

Correct Installations:

- **M-1 (Horizontal, low in pipe):** This is correct. Mounted low with back pressure at the outlet. Prevents air bubbles

and ensures accuracy.

- **M-2 (Vertical, flow upward):** Also correct. Similar to M-1, this position prevents air bubbles and maintains accuracy.

Incorrect Installations:

- **M-3 (Horizontal, high in pipe):** This is incorrect. Mounting high can trap air bubbles, which will affect measurement accuracy.
- **M-4 (Vertical, flow downward):** This is incorrect. Downward flow in a vertical installation is not allowed.



Image: A technician installing the water meter into a plumbing system, demonstrating the physical connection.

Pairing with Tuya Zigbee Hub:

After physical installation, the device needs to be paired with your Tuya Zigbee Hub. The pairing process typically involves:

1. Ensure your Tuya Zigbee Hub is powered on and connected to your network.
2. Open the Tuya Smart App and navigate to your Zigbee Hub.

3. Initiate the device search/pairing mode within the app.
4. On the water meter, locate the single push button. Cycle through the display screens until you find the pairing mode screen. A long press of the button on this specific screen will activate pairing mode. The exact screen may require several attempts to locate.
5. Once in pairing mode, the meter should be discovered by the Tuya App. Follow the on-screen prompts to complete the pairing.

4. Operating Instructions

The water meter can be operated via its LCD display or through the Tuya Smart App.

LCD Display Operation:

The device features a single push button to cycle through various display screens. These screens show parameters such as total water consumption, current flow rate, and pipe temperature. Some cryptic parameters may be adjustable, but their functions are not detailed in standard documentation. The primary use of the button is for cycling through information and initiating pairing mode.

Tuya Smart App Operation:

Once paired, the Tuya Smart App provides comprehensive control and monitoring capabilities.

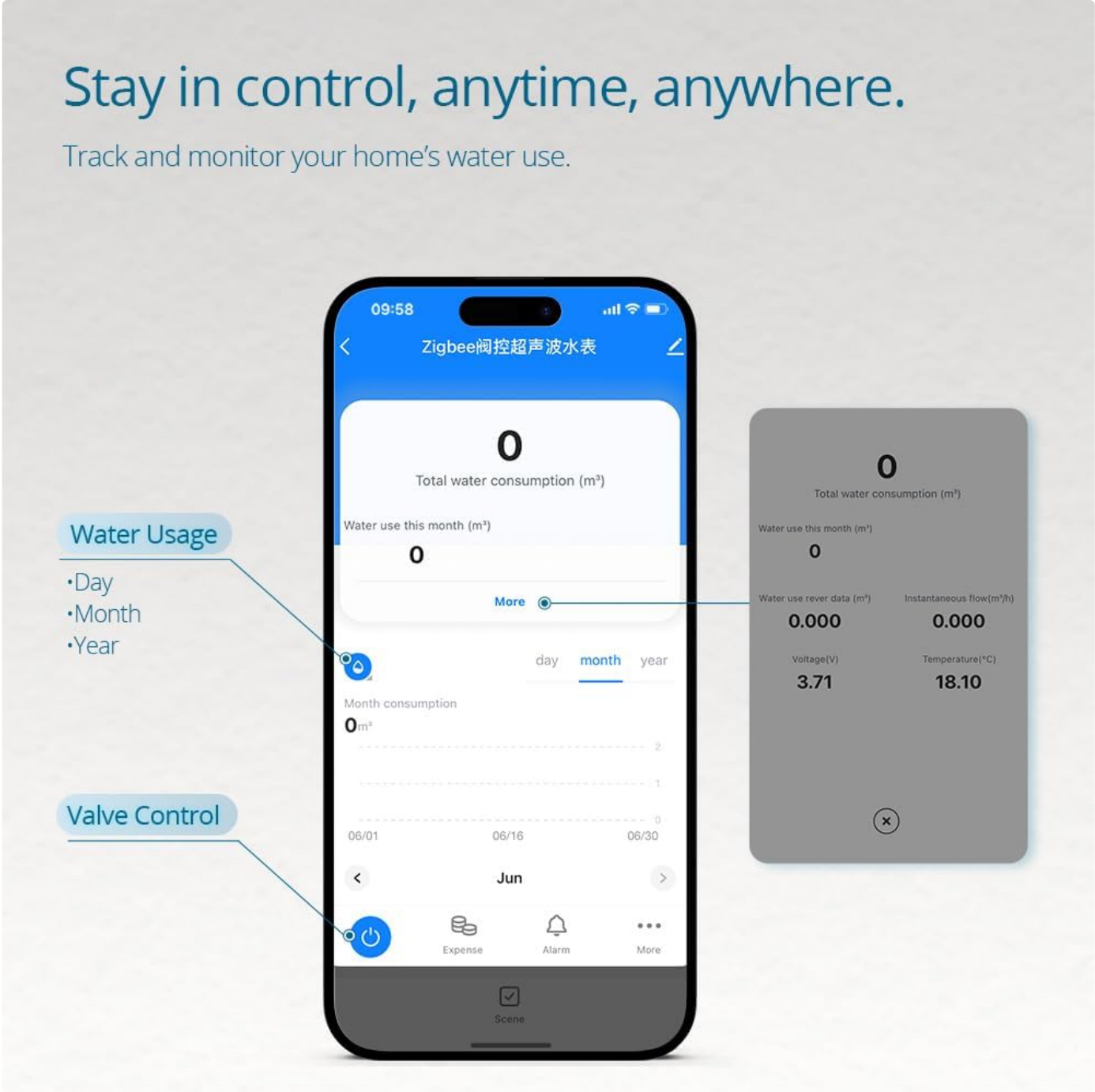


Image: The Tuya Smart App interface for the water meter, illustrating how users can track daily, monthly, and yearly water usage, view instantaneous flow, voltage, and temperature, and control the valve remotely.

- **Remote Monitoring:** View total water consumption, current flow rate, and pipe temperature from anywhere.
- **Valve Control:** Remotely open or close the built-in shutoff valve.
- **Data History:** Access detailed consumption history (hourly data for 7 days, daily for a year) to analyze usage patterns.
- **Custom Data Upload Intervals:** Adjust how frequently data is uploaded to the app (1-24 hours).
- **Smart Threshold Alarms:** Configure alerts for abnormal water flow or other parameters.

5. Maintenance

The Blindsmart Zigbee Smart Water Meter 214C is designed for minimal maintenance.

- **Battery:** The device is powered by a large 9000mAh built-in lithium battery. This battery is not user-replaceable as

the entire device is sealed. The battery is designed for long-term operation. Frequent operation of the shutoff valve may reduce battery life.

- **Cleaning:** Periodically wipe the exterior of the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the meter and pipe connections for any signs of leaks or damage.

6. Troubleshooting

Common Issues and Solutions:

- **Device Not Pairing:**
  - Ensure your Tuya Zigbee Hub is online and in pairing mode.
  - Confirm the water meter is in pairing mode by cycling through its display screens and long-pressing the button on the correct screen. This step can be challenging; persistence may be required.
  - Verify the meter is within range of the Zigbee Hub.
- **Inaccurate Readings:**
  - Check that the meter is installed according to the flow direction arrow.
  - Ensure the recommended straight pipe lengths before and after the meter are met.
  - Verify the installation orientation is correct (horizontal low in pipe or vertical flow upward) to avoid air bubbles.
- **No Data in App:**
  - Confirm the device is successfully paired and connected to the Zigbee Hub.
  - Check your internet connection for the Tuya Zigbee Hub.
  - Verify data upload intervals in the app settings.
- **Leak Detection Alerts Not Functioning:**

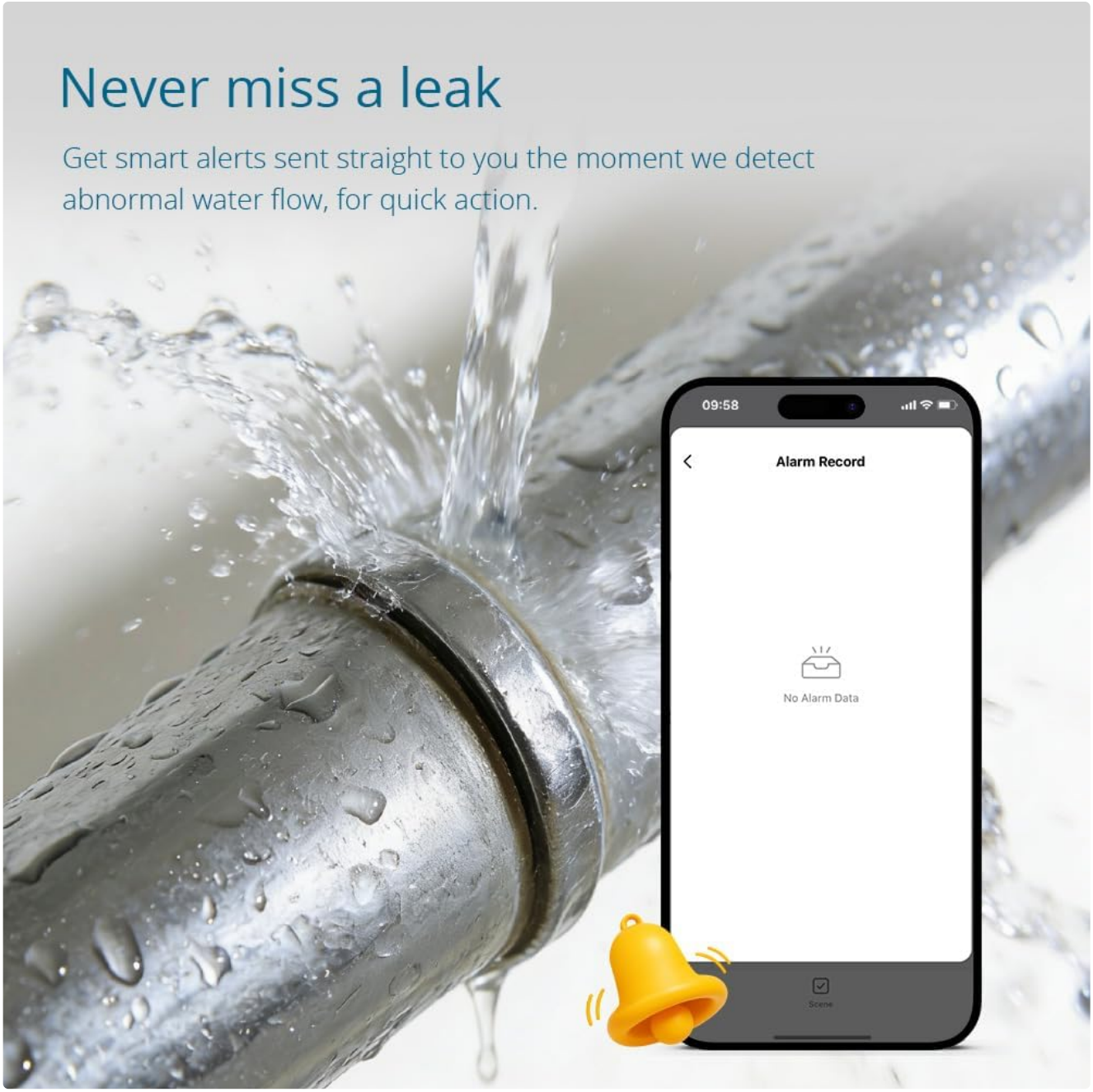


Image: A visual representation of the leak detection feature, showing water leaking from a pipe and a smartphone displaying an alarm record, indicating an alert for abnormal water flow.

- Ensure leak detection thresholds are properly configured in the Tuya Smart App.
- Check app notification settings on your smartphone.

7. Specifications

Detailed technical specifications for the Blindsmart Zigbee Smart Water Meter 214C.

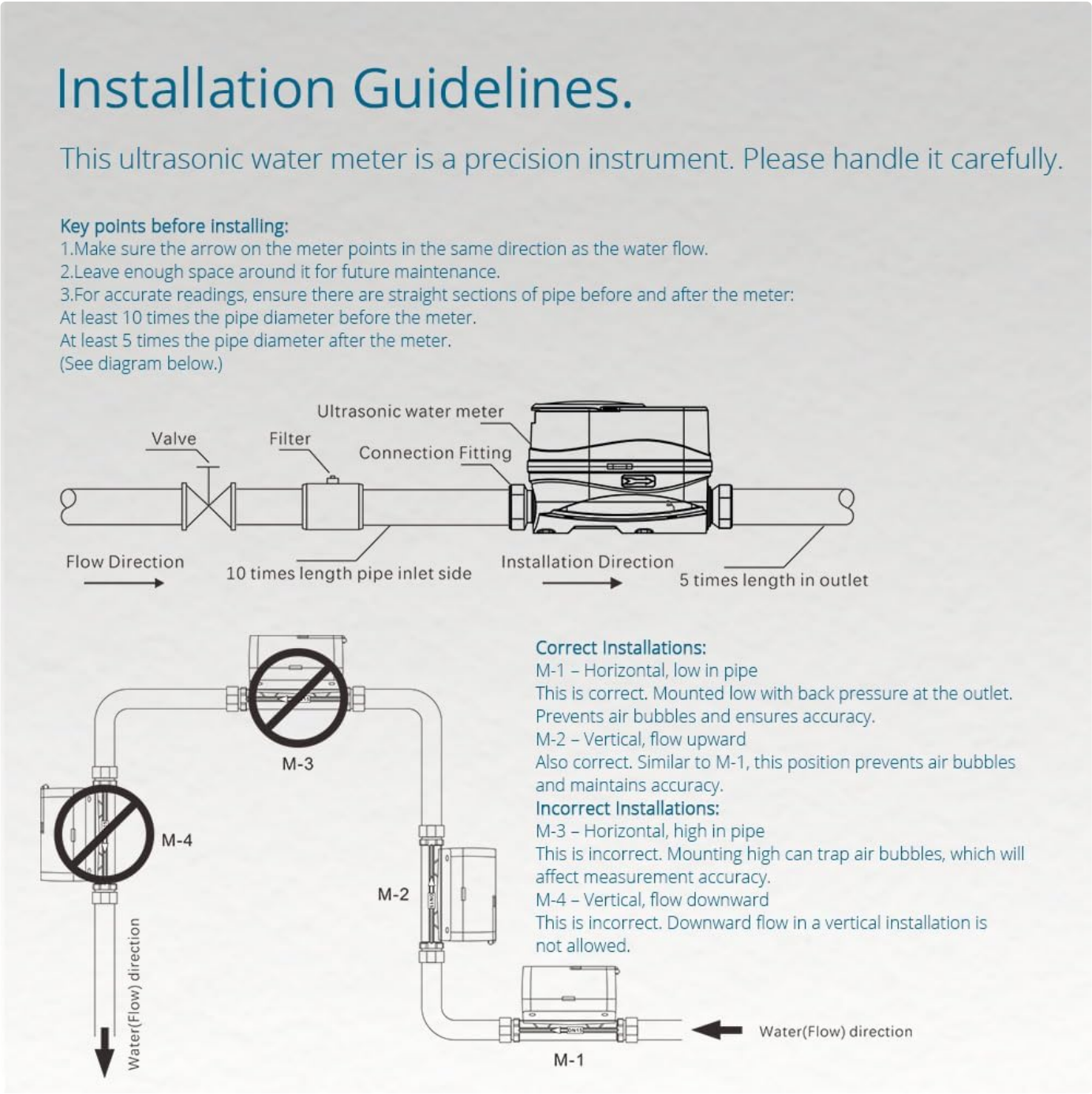


Image: A comparative chart detailing the product parameters for different sizes (DN15, DN20, DN25) of the water meter, including physical dimensions, flow characteristics, power source, and environmental protection ratings.

Parameter	Value
Brand	Blindsmart
Model	214C
Power Source	Battery Powered (9000mAh Lithium Battery)
Compatible Devices	Tuya Smart, Home Assistant (via ZHA with add-on)
Product Dimensions (L x W x H)	5.59" x 3.86" x 4.01" (142mm x 98.2mm x 102mm)
Control Method	App

Parameter	Value
Sensor Technology	Zigbee Sensor
Item Weight	3.3 Pounds
Protection Rating	IP68
Accuracy Class	Class 2
Maximum Working Pressure	1.0 MPa
Installation	Horizontal or Vertical (flow upward)

8. Support

For technical assistance, questions regarding Home Assistant integration add-ons, or any other inquiries, please contact Blindsmart customer service. Refer to the product packaging or the seller's store page for contact information.

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