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CVXDD ZJLCD-BT01

CVXDD ZJLCD-BT01 Turbine Flow Meter Instruction Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the CVXDD ZJLCD-BT01 Turbine Flow Meter. This electronic flow meter is designed for accurate measurement of water or liquids with similar concentration, suitable for various applications including farm and garden irrigation. It features an electronic display system based on the turbine meter principle, offering complete work capacity and convenient operation.



Image 1.1: The CVXDD ZJLCD-BT01 Turbine Flow Meter, showing its digital display and connection points.



Image 1.2: Diagram illustrating the electronic display system and turbine principle of the flow meter.

2. Product Features

- **Material:** Constructed from durable PVC.
- **Medium:** Suitable for water or liquids with similar concentration to water.
- **Flow Range:** Available in various pipe diameters with corresponding flow ranges:
  - DN15: 20-280 L/MIN
  - DN32: 40-460 L/MIN
  - DN40: 50-750 L/MIN
  - DN50: 60-1160 L/MIN
  - DN65: 80-1980 L/MIN
  - DN80: 100-3000 L/MIN
- **Measurement Units:** Supports Liter (L), Gallons (GAL), Pints (PTS), and Quarters (QTS).
- **Clear Single Measurement:** Features a 'CLEAR' function for resetting single measurements.

3. Specifications

Parameter	Value
Brand	CVXDD
Model Number	ZJLCD-BT01 (Part Number: 260759702)

Parameter	Value
Material	PVC
Medium	Water or liquid of similar concentration
Measurement Accuracy	±2%
Repeatability	±0.5%
Maximum Working Pressure	20 Bar
Cumulative Number Range	0-999999
Single Counting Range	0-9999.9
Cumulative Count Range	0-999999
Units of Measurement	Liter/L, Gallons/GAL, Pints/PTS, Quarters/QTS
Power Supply	5V external power supply (wired version), or batteries (battery version)
Item Weight	2.2 pounds

Pipe Diameter Selection

The flow meter is available for various PVC pipe diameters. Refer to the table below for corresponding inner and outer diameters.

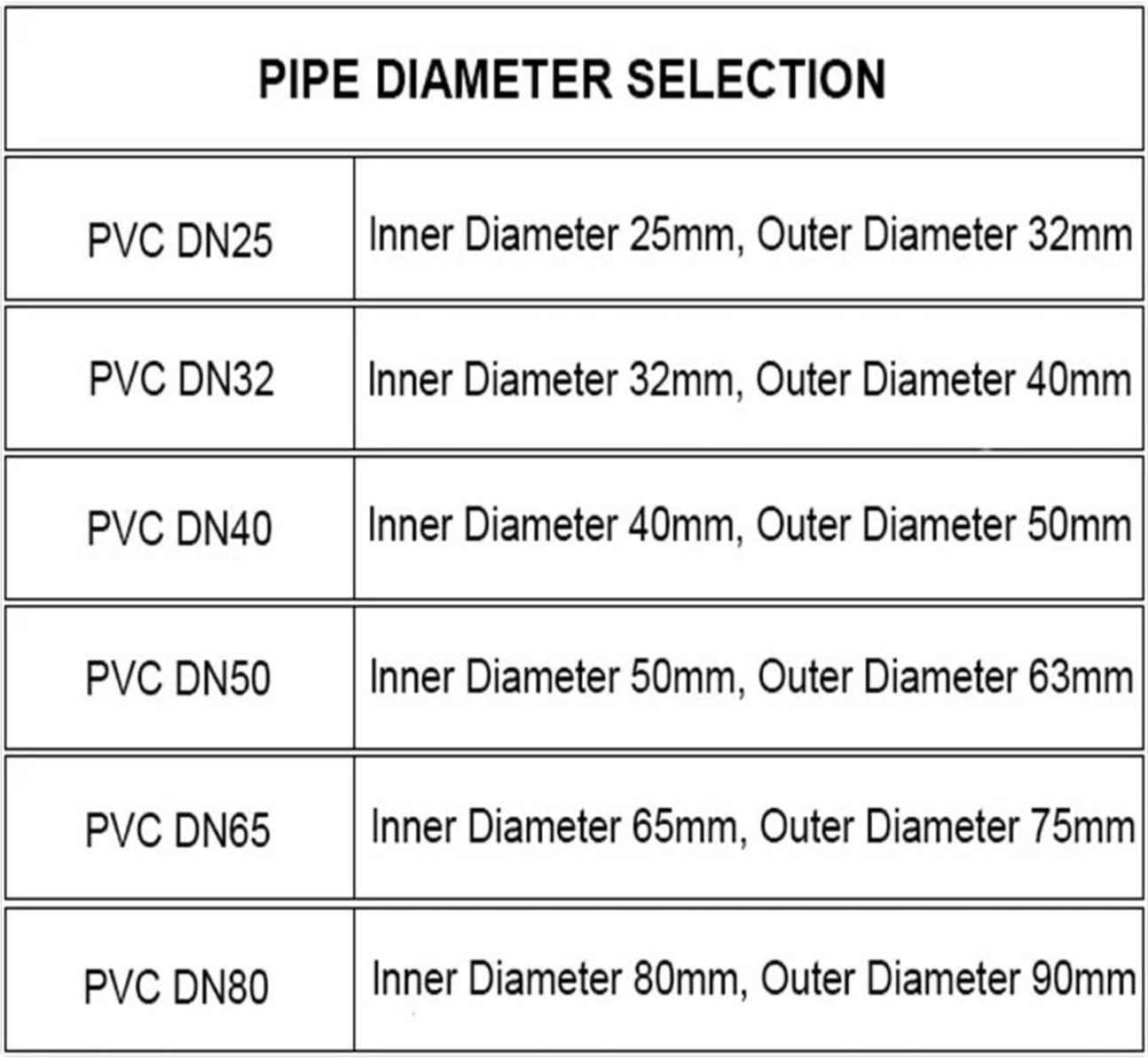


Image 3.1: Table detailing PVC pipe inner and outer diameters for different DN sizes.

PVC DN Size	Inner Diameter	Outer Diameter
DN25	25mm	32mm
DN32	32mm	40mm
DN40	40mm	50mm
DN50	50mm	63mm
DN65	65mm	75mm
DN80	80mm	90mm

4. Installation

4.1 Correct Installation Position

Proper installation is crucial for accurate measurement and optimal performance. Observe the following guidelines for correct positioning:

- Install the flow meter horizontally in a straight pipe section.

- Ensure the flow direction matches the arrow on the meter body.
- Avoid installing immediately after bends, valves, or pumps. Allow for sufficient straight pipe length before and after the meter.
- Do not install in upward-flowing vertical pipes where air pockets may form.

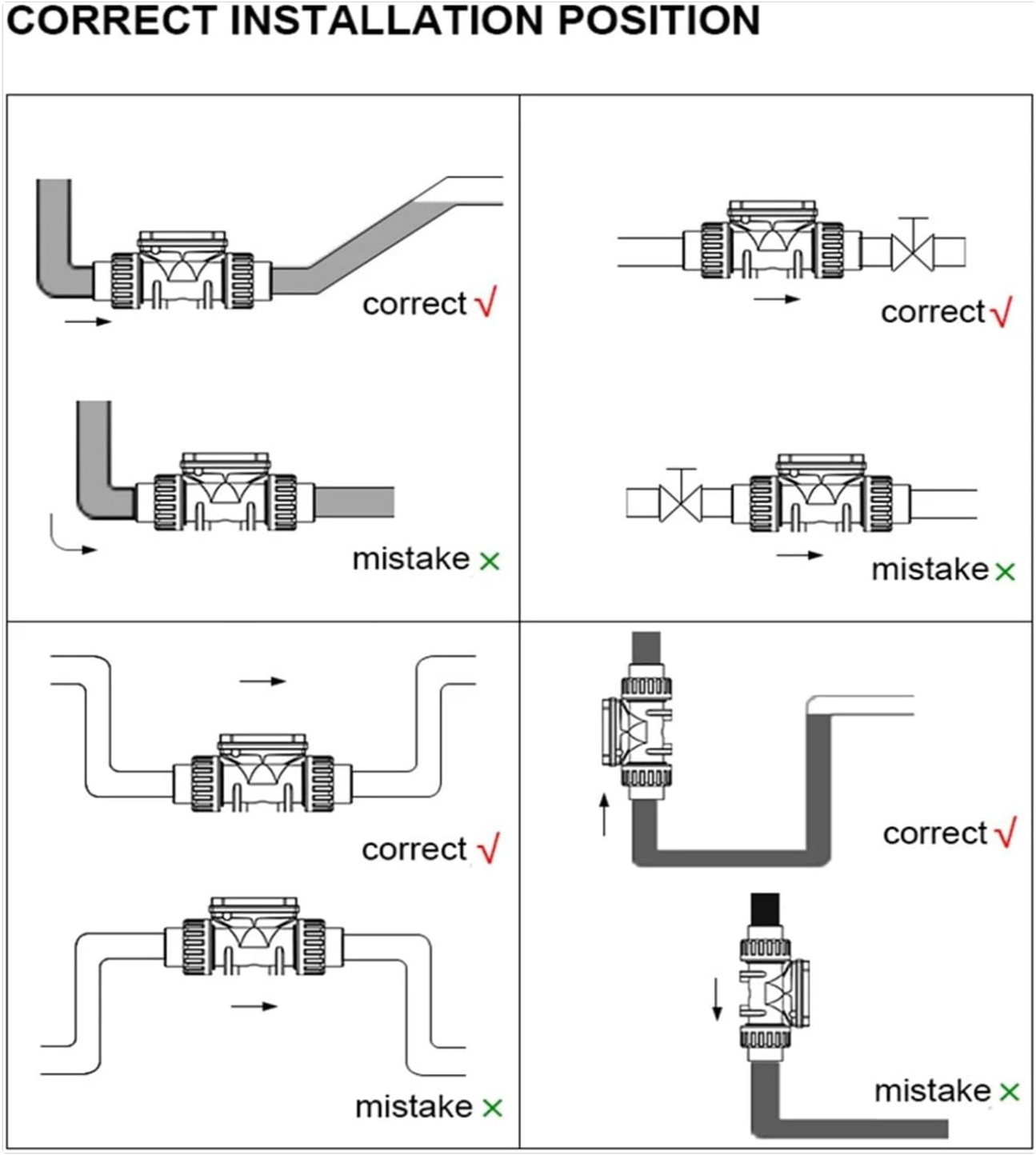


Image 4.1: Visual guide showing correct and incorrect installation positions for the flow meter in various pipe configurations.

4.2 Wiring (for Wired Models)

For wired versions requiring an external power supply:

- The default external power supply is 5V.
- Connect the red and black power cords to the appropriate power line. The yellow line does not need to be connected for basic screen power.
- If connecting to a PLC, consult customer service for specific instructions.
- **Important:** If using an external power supply, do not install batteries in the unit, as this may cause

abnormalities.

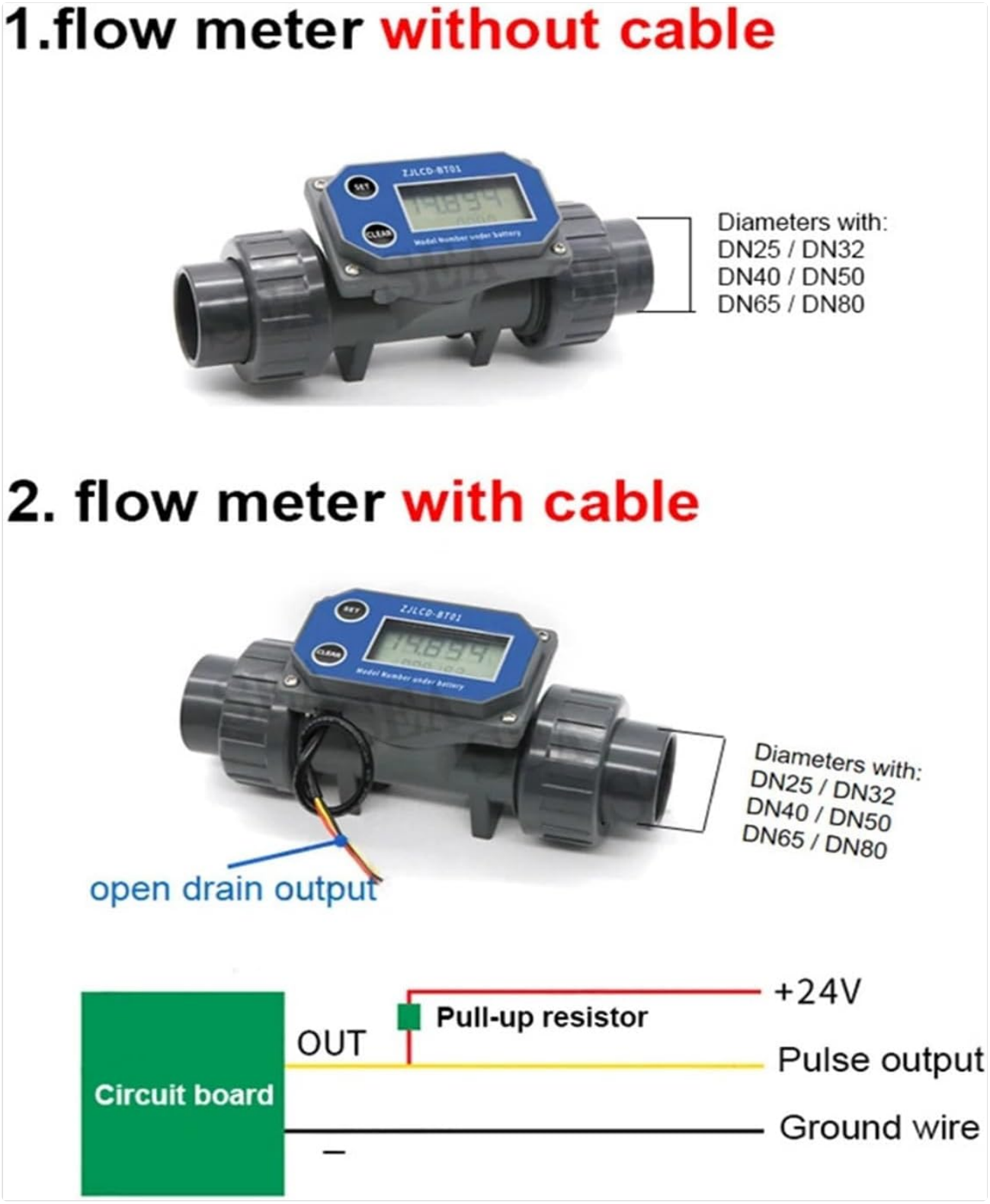


Image 4.2: Illustration showing the flow meter with and without a cable, along with a basic wiring diagram for the external power supply and pulse output.

5. Operation

The ZJLCD-BT01 flow meter features a digital display with 'SET' and 'CLEAR' buttons for various functions.

5.1 Clearing Data

1. Clear Single Measurement

In counting or standby mode, press and hold the "CLEAR" key. Release the "CLEAR" button when the LCD

displays a full screen (as shown in Image 5.1). The single count number will be cleared, and the device will return to the standby interface.

2. Clear Total Measurement

In counting or standby mode, short press the "SET" key to switch to the total interface. Then, press and hold the "CLEAR" key for more than 5 seconds. The LCD will display in full screen, and after 5 seconds, it will automatically return to the standby interface, with the total accumulation cleared.

INSTRUCTION

1.Clear the data of single measurement.

When in counting or standby mode, press the "CLEAR" key, the LCD will displayin full screen (as shown below), release the "CLEAR" button to return to the standbyinterface, and the single count number has been cleared.



2.Clear the data of total measurement

When in counting or standby mode, short press the "SET" key to switch to total interface, press andhold the "CLEAR" key for more than 5s, the LCD wil display in full screen, after 5s, the LCD screenwill automatically return to the standby interface, and the total accumulation has been cleared.



Full-screen display



Standby interface

3. Switch the interface between flow rate、 total flow

When in counting or standby mode, press the "SET" key to switch the interfacebetween flow rate、 total flow (shown as below).

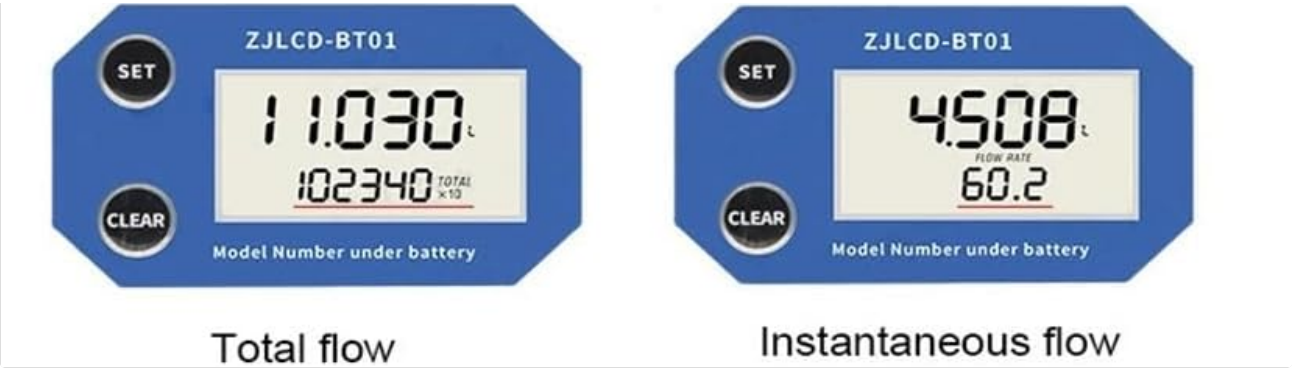


Image 5.1: Visual instructions for clearing single and total measurement data, and examples of full-screen and standby displays.

5.2 Switching Display Interface

In counting or standby mode, press the "SET" key to switch between the flow rate and total flow display interfaces (as shown in Image 5.1).

5.3 Pulse Number Setting

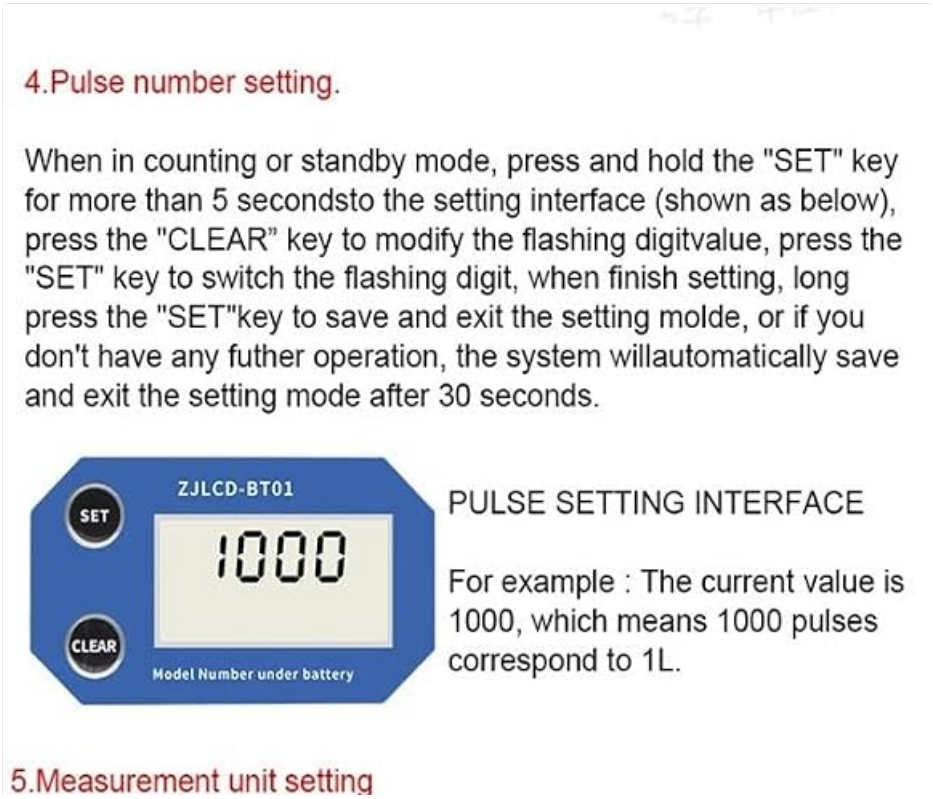
In counting or standby mode, press and hold the "SET" key for more than 5 seconds to enter the setting interface. Press the "CLEAR" key to modify the flashing digit value. Press the "SET" key to switch the flashing digit. When finished setting, long press the "SET" key to save and exit the setting mode. If no further operation occurs, the system will automatically save and exit after 30 seconds.

5.4 Measurement Unit Setting

In counting or standby mode, press and hold the "SET" + "CLEAR" keys for more than 5 seconds to enter the unit setting interface. Press the "CLEAR" key to switch the unit between L (Liter), GAL (Gallons), PTS (Pints), and QTS (Quarters). When finished setting, long press the "SET" key to save and exit. If no further operation occurs, the system will automatically save and exit after 30 seconds. The factory default measurement unit is Liter (L).

5.5 Quickly View Pulses and Total Flow

In counting or standby mode, press and hold the "SET" + "CLEAR" keys for less than 5 seconds. This will display the pulses and total flow (as shown in Image 5.2).



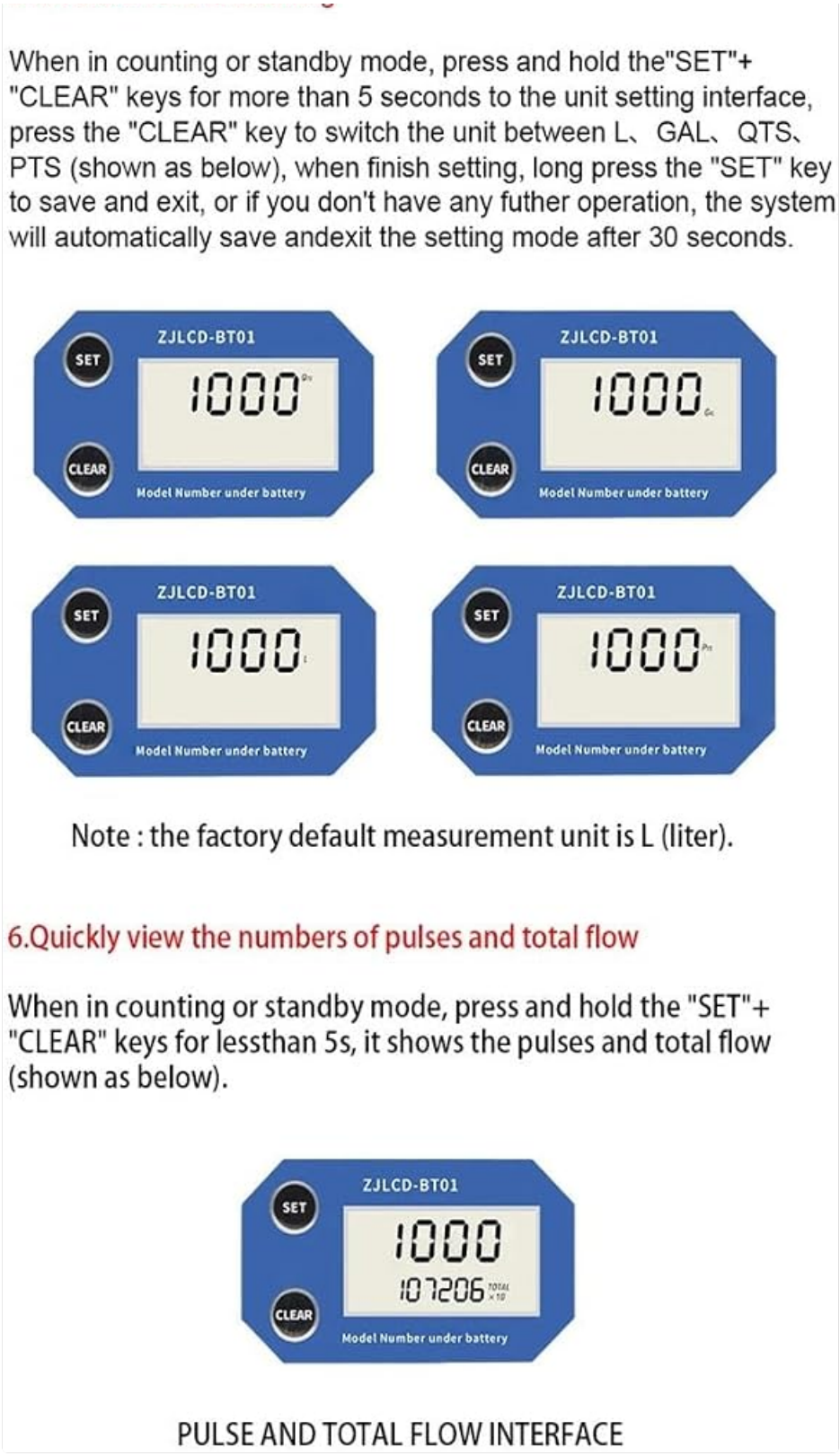


Image 5.2: Visual instructions for setting pulse numbers, changing measurement units, and quickly viewing pulse and total flow data.

6. Maintenance

To ensure the longevity and accuracy of your CVXDD ZJLCD-BT01 Turbine Flow Meter, regular maintenance is recommended:

- **Cleaning:** Periodically inspect the flow meter for any debris or buildup that might obstruct the turbine or flow path. Clean gently if necessary, ensuring no damage to internal components.
- **Connections:** Check all pipe connections for leaks and ensure they are secure.

- **Wiring:** For wired models, inspect the power and signal cables for any signs of wear or damage. Ensure connections remain firm.
- **Storage:** If the flow meter is to be stored for an extended period, ensure it is drained of liquid, cleaned, and stored in a dry, temperate environment.

7. Troubleshooting

If you encounter issues with your flow meter, consider the following common troubleshooting steps:

- **No Display/Power:**
  - Check power supply connections for wired models. Ensure 5V external power is correctly applied.
  - If using batteries, ensure they are correctly installed and have sufficient charge.
  - Verify that batteries are not installed if an external power supply is in use, as this can cause abnormalities.
- **Inaccurate Readings:**
  - Verify correct installation position as per Section 4.1. Incorrect orientation or proximity to bends/valves can affect accuracy.
  - Check for blockages or debris within the flow meter that might impede the turbine.
  - Ensure the liquid being measured matches the specified medium (water or similar concentration).
  - Confirm the correct measurement unit is selected (L, GAL, PTS, QTS).
- **No Flow Detection:**
  - Ensure there is actual liquid flow through the meter.
  - Check for severe blockages in the pipe system.

For persistent issues not resolved by these steps, please contact customer support.

8. Warranty and Support

For warranty information, technical support, or service inquiries regarding your CVXDD ZJLCD-BT01 Turbine Flow Meter, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.

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