

GRYVOZE A1211

GRYVOZE A1211 3-inch Turbine Flow Meter User Manual

Model: A1211

1. PRODUCT OVERVIEW

The GRYVOZE A1211 is a 3-inch turbine flow meter designed for accurate measurement of various liquids, including water, diesel, gasoline, and E15. It features a 180° rotatable LCD display for easy reading and supports multiple measurement units. The robust aluminum alloy casing ensures durability, while EMI protection allows for installation near pumps or motors without interference.

Key Features:

- **Flexible Viewing Angle:** 180° rotatable LCD for optimal readability.
- **Precise Measurement:** Provides $\pm 1\%$ accuracy for reliable data.
- **Wide Flow Range:** Measures 21-264 GPM (80-1000 LPM).
- **Multi-Unit Support:** Displays in US Gallons (Gal), Quarts (QTS), Pints (PTS), Liters (L), and Cubic Meters (m³).
- **EMI Protection:** Designed to prevent interference from nearby electrical equipment.
- **Durable Construction:** Features a rugged aluminum alloy casing and PP turbine.
- **Energy-Saving Display:** Auto-wakes on flow and sleeps after 10 minutes of inactivity.
- **IPX4 Rating:** Splash-proof design for use in sheltered locations.

2. WHAT'S IN THE BOX

- 1 PCS 3 Inch NPT Digital Turbine Flow Meter

3. SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and the longevity of your flow meter. Follow these guidelines:

1. **Flow Direction:** Ensure the meter is installed with the liquid flow direction matching the arrow indicated on the meter's body.
2. **Connection:** The meter features NPT threading for secure connections.
3. **Location:** Thanks to its EMI protection, the meter can be installed near pumps or motors without significant interference. However, for maximum lifespan and to protect the internal PCB circuit board, use the meter in dry or sheltered locations and protect it from heavy rain or constant humidity. The PCB circuit board is not waterproof.

4. **Display Orientation:** The display panel can be rotated 180° for optimal viewing. To adjust, simply remove the screws securing the display and re-position it.
5. **Power:** The unit requires 2 AAA LR03 batteries (included). Battery replacement is a safe procedure.

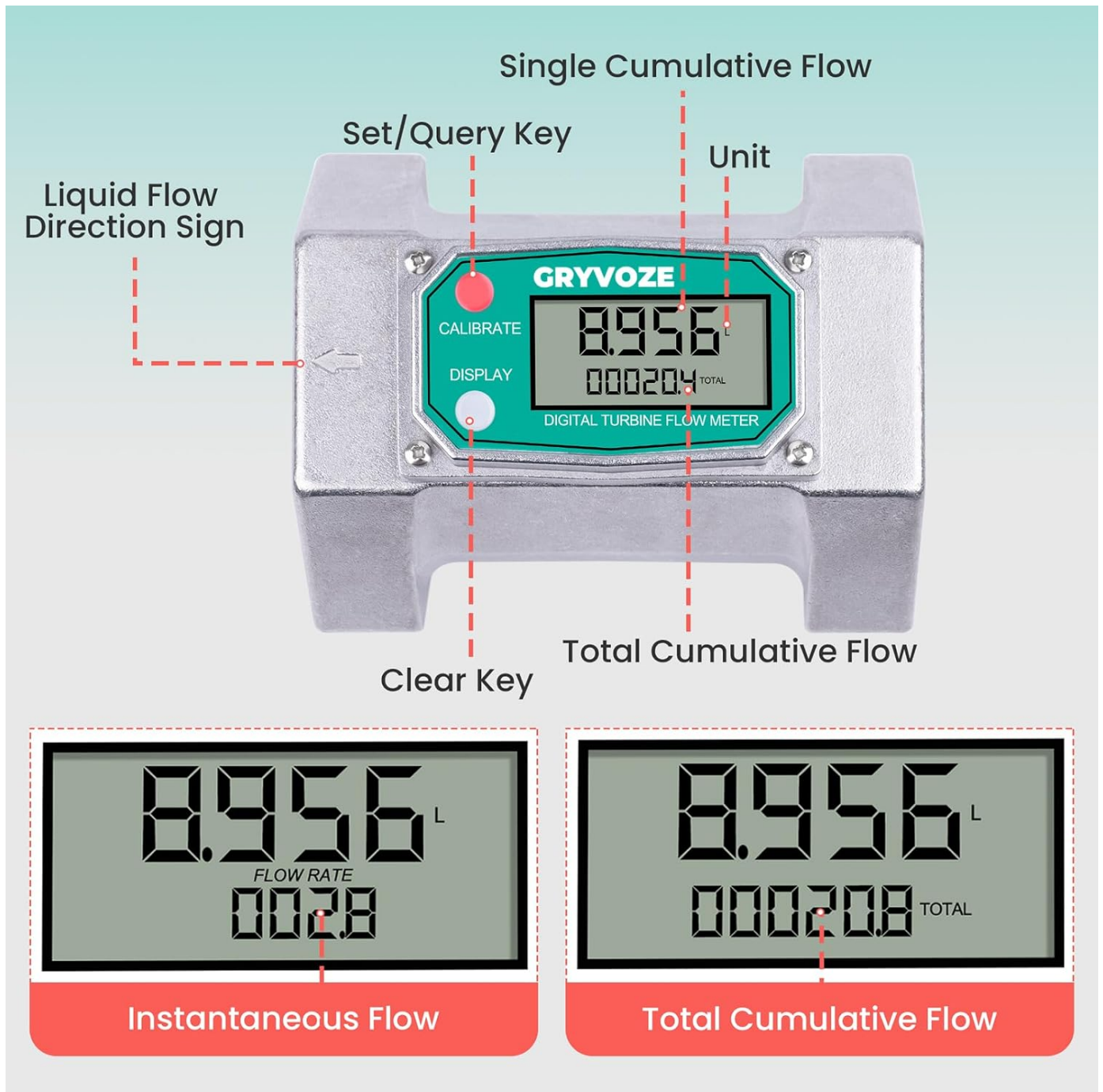


Figure 1: Overview of the flow meter's display and key components, including the liquid flow direction sign, Set/Query key, Clear key, Unit, Single Cumulative Flow, and Total Cumulative Flow. The display shows both instantaneous flow and total cumulative flow.



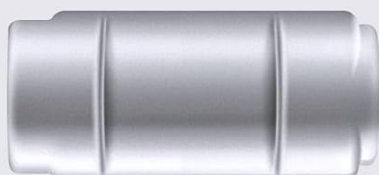
『 PCB CIRCUIT BOARD 』

The memory is non-volatile, and battery replacement is safe.



Battery type: 2 x AAA LRO3 batteries

Note: PCB circuit board is not waterproof and do not wet it.



『 DIE-CAST ALUMINUM HOUSING 』

Robust design for enhanced durability and performance.

Figure 2: Internal view of the PCB circuit board and the robust die-cast aluminum housing. Note that the PCB circuit board is not waterproof. The display panel can be rotated 180 degrees by removing screws.



Figure 3: Illustration emphasizing the importance of installing the flow meter according to the indicated flow direction arrow.

4. OPERATING INSTRUCTIONS

The GRYVOZE A1211 flow meter is designed for straightforward operation. The display automatically activates when liquid flows

through the meter or can be manually activated by pressing any button.

Display Functions:

- **Real-time Flow Rate:** Shows the current flow speed.
- **Batch Volume:** Displays the volume for the current measurement batch (up to 9,999 units). This can be reset.
- **Total Volume:** Shows the cumulative total volume measured (up to 29,999,999 units). This is a non-resettable total.

Unit Setting and Calibration:

To change the measurement unit or calibrate the meter:

1. Simultaneously press and hold the "CALIBRATE" (C) and "DISPLAY" (D) keys for more than 5 seconds to enter the metering unit setting mode.
2. The default unit is Liters (L). Press the "DISPLAY" (D) key to cycle through the available units: Gallons (GAL), Quarts (QTS), Pints (PTS), and Liters (L).
3. Once your desired unit is selected, press and hold the "CALIBRATE" (C) key for 3 seconds to save the setting and exit the unit setting mode.



Figure 4: Close-up of the LCD monitor displaying instantaneous flow and total cumulative flow, along with icons for high precision, LCD display, non-volatile memory, and easy operation.

APPLICABLE MEDIUM

Ideal for diesel, gasoline, kerosene, methanol, water, and so on.

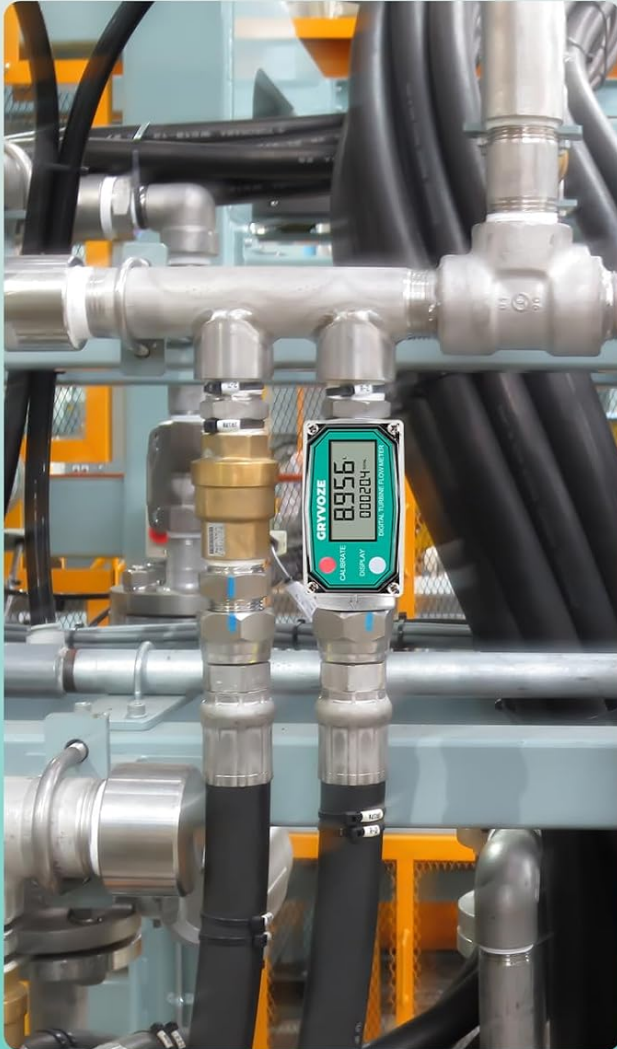


Figure 5: Visual representation of the five optional measurement units available on the flow meter: Gallons (GAL), Quarts (QTS), Pints (PTS), Liters (L), and Cubic Meters (m³).

CLEAR LCD DISPLAY

High-definition LCD screen shows single accumulated flow, instant flow, and total accumulated flow, supporting five measurement units for easy viewing.

GAL

QTS

PTS

L

m³



Figure 6: Step-by-step guide on how to change the measurement unit by simultaneously pressing the 'C' and 'D' keys, then using 'D' to select and 'C' to save.

5. MAINTENANCE

To ensure the longevity and accurate performance of your GRYVOZE A1211 flow meter, adhere to the following maintenance practices:

- **Environmental Protection:** The meter has an IPX4 splash-proof rating, meaning it is resistant to water splashes but not designed for submersion. Always use the meter in dry or sheltered locations and protect it from heavy rain or constant humidity to prevent damage to internal components, especially the PCB circuit board.
- **Battery Replacement:** The meter is powered by 2 AAA LR03 batteries. A low battery icon will appear on the display when replacement is needed. Battery replacement is a safe procedure.
- **Cleaning:** Keep the exterior of the meter clean. Avoid using harsh chemicals that could damage the display or casing.
- **Turbine Inspection:** Periodically inspect the PP turbine for any debris or blockages that could affect accuracy.

6. TROUBLESHOOTING

This section provides guidance for common issues. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead batteries; unit in sleep mode.	Replace batteries (2 x AAA LR03). Initiate flow or press any button to wake from sleep mode.
Inaccurate readings.	Incorrect unit setting; debris in turbine; flow direction incorrect.	Verify unit setting (refer to Operating Instructions). Inspect and clean turbine. Ensure flow direction matches arrow on meter.
No flow detected.	No liquid flow; turbine jammed.	Confirm liquid is flowing through the system. Check for blockages or a jammed turbine.

7. SPECIFICATIONS

Feature	Detail
Model Number	A1211
Size	3 inch NPT

Feature	Detail
Flow Rate Range	21-264 GPM (80-1000 LPM)
Accuracy	±1%
Display	180° Rotatable LCD
Measurement Units	Gal, QTS, PTS, L, m³
Applicable Medium	Water, Diesel, Gasoline, E15, Kerosene, Methanol
Operating Temperature	14-176°F (-10-80°C)
Casing Material	Aluminum Alloy
Turbine Material	PP (Polypropylene)
Power Source	2 x AAA LR03 batteries (included)
Standby Time	Over 1 year
IP Rating	IPX4 (Splash-proof)
Item Weight	2.27 pounds
Package Dimensions	6.5 x 4.72 x 3.94 inches

8. WARRANTY AND SUPPORT

Specific warranty information for the GRYVOZE A1211 Turbine Flow Meter is not provided in this manual. Please refer to the product packaging or contact GRYVOZE customer support for detailed warranty terms and conditions. For technical assistance or inquiries, please visit the official GRYVOZE website or contact their customer service department.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question