

GRYVOZE GV-DTFM-IN1

GRYVOZE GV-DTFM-IN1 1-Inch Digital Turbine Fuel Flow Meter Instruction Manual

Model: GV-DTFM-IN1

Brand: GRYVOZE

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GRYVOZE GV-DTFM-IN1 Digital Turbine Fuel Flow Meter. Please read this manual thoroughly before use to ensure proper function and safety.

2. SAFETY INSTRUCTIONS

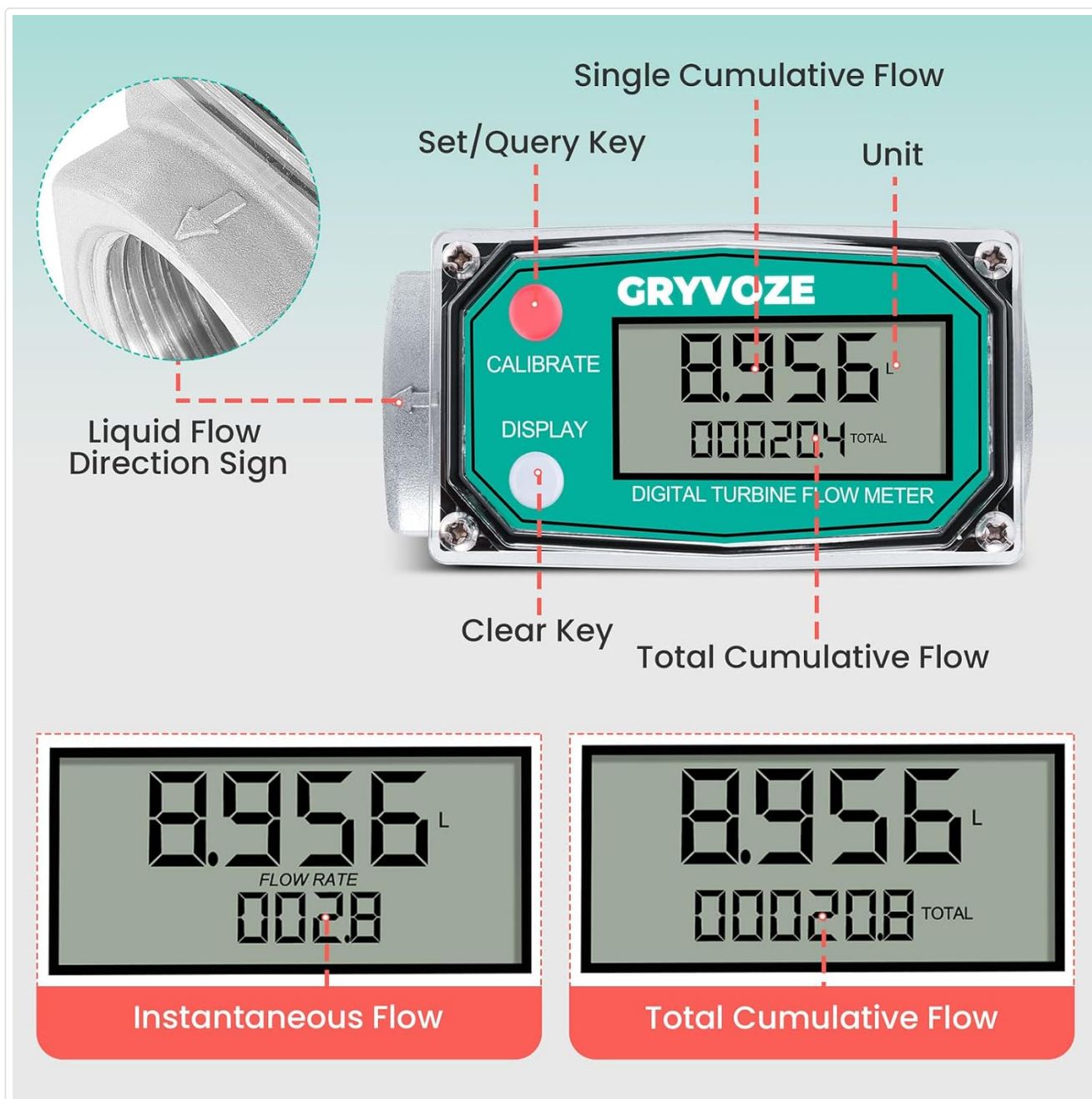
- The flow meter is **not waterproof**. It is suitable for dry, sheltered environments only. Keep away from rain, humidity, and condensation. Do not immerse the device in liquid.
- The product features an aluminum alloy casing. If installing in a copper pipe environment, consider potential long-term issues due to dissimilar metals.
- Ensure the liquid flow rate is within the specified range (2.6-26 GPM / 10-100 LPM) to maintain accuracy.
- The device features a battery level indicator. Replace batteries promptly when the icon appears.
- The product is calibrated at the factory. On-site calibration methods are provided in the full product manual for fine-tuning.

3. PRODUCT OVERVIEW

The GRYVOZE Digital Turbine Flow Meter is designed for accurate measurement of various liquids including water, diesel, gas oil, gasoline, kerosene, methanol, and E15. It features a clear LCD display and versatile unit options.



A front view of the GRYVOZE Digital Turbine Fuel Flow Meter, showing its digital display and the included 3/4 inch NPT adapters. The meter has a metallic body and a clear plastic cover over the display.



A detailed diagram highlighting the components of the GRYVOZE Digital Turbine Flow Meter, including the Liquid Flow Direction Sign, Set/Query Key (Calibrate), Clear Key (Display), Single Cumulative Flow, Unit, and Total Cumulative Flow on the LCD screen.

4. INSTALLATION

4.1 Flow Direction

The flow meter must be installed according to the liquid flow direction indicated by the arrow on the meter's body.



An illustration demonstrating the correct installation of the flow meter, emphasizing that the liquid flow must match the arrow direction

on the meter. It shows a pipe with an elbow leading into the meter.

4.2 Flexible Display Orientation

For flexible installation and viewing, the display panel can be rotated 180 degrees by simply removing the screws that secure it.



An image showing the GRYVOZE flow meter installed on a pipe, with an inset demonstrating how the display panel can be rotated 180 degrees for optimal viewing by unscrewing and reattaching it.

4.3 Adapters

The meter comes with 3/4 inch NPT adapters for versatile connection options.

4.4 Environmental Considerations

Install the meter in a dry environment, away from direct exposure to rain, humidity, or condensation.

4.5 Electromagnetic Interference

The flow meter is equipped with an anti-electromagnetic interference function, allowing it to be installed in proximity to pumps or motors. If using a flow meter without this feature, it should be installed as far away as possible from

such equipment to prevent inaccurate readings caused by magnetic induction.



An image showing the GRYVOZE flow meter installed within an industrial piping system, with text emphasizing its anti-electromagnetic interference function, which allows for installation near pumps or motors without affecting accuracy.

5. OPERATION

5.1 Digital LCD Display

The clear LCD screen provides real-time data:

- **Instantaneous Flow:** Shows the current flow rate.
- **Single Cumulative Flow:** Tracks the flow for a single operation (resettable).
- **Total Cumulative Flow:** Records the overall accumulated flow (non-resettable).



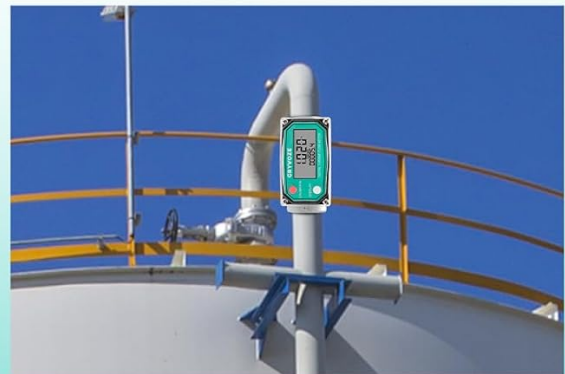
10 min

The display will turn off after 10 minutes of inactivity, more power-saving.

Low Battery Alert: When the battery is running low, a battery icon will appear on the display screen, indicating the need for battery replacement.

AUTO TURN OFF

It automatically turns on when there is liquid flow and can also be activated by pressing any key.



A close-up view of the GRYVOZE flow meter's LCD display, clearly showing the instantaneous flow rate (e.g., 8.956 L) and the total cumulative flow (e.g., 00020.4 L TOTAL).

5.2 Unit Switching

The meter supports five different measurement units: Gallons (GAL), Quarts (QTS), Pints (PTS), Liters (L), and Cubic Meters (m³).

1. Simultaneously press and hold both the "CALIBRATE" (red) and "DISPLAY" (white) buttons for more than 5 seconds to enter the metering unit setting mode. The current unit will flash.
2. Press the "DISPLAY" (white) button to cycle through the available units (m³, Qts, Pts, L, Gal (US)).
3. Once the desired unit is flashing, long press the "CALIBRATE" (red) button for 3 seconds to save the selection and exit the setting mode.

LCD Monitor

Instantaneous Flow/Single Cumulative Flow/Total cumulative Flow



High
Precision



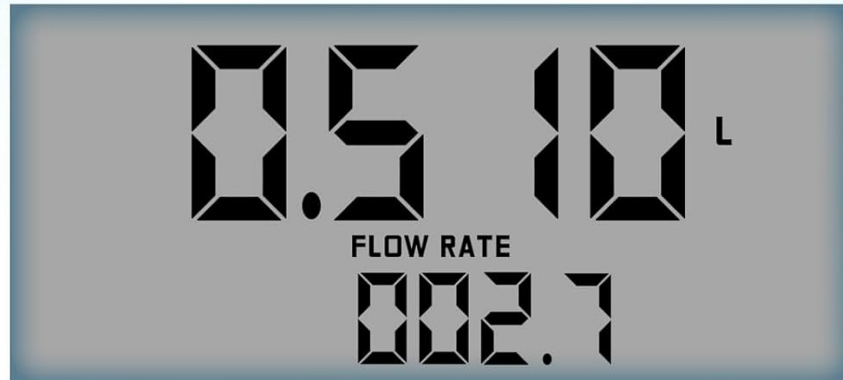
LCD
Display



Non-Volatile
Memory



Easy to
Operate



An infographic illustrating the five selectable measurement units for the GRYVOZE flow meter: Gallons (GAL), Quarts (QTS), Pints (PTS), Liters (L), and Cubic Meters (m³).

5.3 Auto Turn-Off and Energy Saving

The display screen will automatically turn off after 10 minutes of inactivity to conserve battery life. It will automatically turn on when liquid flow is detected or by pressing any key. The standby time is over 1 year.

5 OPTIONAL UNITS

Switch between GAL, QTS, PTS, Land m^3 units to meet your specific measurement needs, offering flexibility and convenience.



An image illustrating the auto turn-off feature of the GRYVOZE flow meter, showing the display turning off after 10 minutes of inactivity and reactivating upon liquid flow or button press. It also shows a low battery indicator.

6. MAINTENANCE

6.1 Battery Replacement

The flow meter uses 2 x AAA LRO3 batteries. The memory is non-volatile, ensuring data is retained during battery replacement. A battery icon will appear on the display when the battery is low.



GRYVOZE
CALIBRATE
DISPLAY
DIGITAL TURBINE FLOW METER

8.956^L
000204^{TOTAL}

New Upgrade
The display panel can be rotated 180° by simply removing the screws.

『 **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.



A close-up image of the GRYVOZE flow meter's internal PCB circuit board, showing the battery compartment with 2 x AAA LRO3 batteries. A warning states that the PCB circuit board is not waterproof.

6.2 Cleaning

Due to the non-waterproof nature of the device, clean the exterior with a dry or slightly damp cloth. Do not use excessive moisture or immerse the device.

7. TROUBLESHOOTING

7.1 Inaccurate Readings

- **Flow Rate:** Ensure the liquid flow rate is within the specified range of 2.6-26 GPM (10-100 LPM).
- **Installation Direction:** Verify the meter is installed correctly with the liquid flow matching the arrow on the device.
- **Calibration:** If readings are consistently off, consider performing on-site calibration as detailed in the full product manual.

7.2 Display Not Working

- **Battery Level:** Check the battery icon on the display. If low, replace the 2 x AAA LRO3 batteries.
- **Activity:** The display automatically turns off after 10 minutes of inactivity. It should reactivate with liquid flow or by pressing any button.

7.3 Leaks

- **Connections:** Ensure all NPT thread connections are properly sealed and tightened.
- **Casing Integrity:** Inspect the meter's casing for any damage or cracks.

8. SPECIFICATIONS

Feature	Detail
Model Number	GV-DTFM-IN1
Accuracy	±1%
Flow Range	2.6-26 GPM (10-100 LPM)
Working Pressure	6 Bar
Working Temperature	-10°C to 80°C (14-176°F)
Display	Digital LCD
Units	GAL (US Gallons), QTS, PTS, L, m³
Single Count Range	99999
Total Cumulative Count Range	29999999
Materials	Aluminum alloy casing, stainless steel turbine
Power Source	2 x AAA LRO3 batteries
Auto Turn-Off	After 10 minutes of inactivity
Product Dimensions	11.8 x 5.5 x 6.2 cm
Product Weight	430 g

9. CONTACT AND SUPPORT

For further assistance, technical support, or warranty information, please refer to the contact details provided with your product packaging or visit the official GRYVOZE website.

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