

[Manuals.plus](#) /

› [GRYVOZE](#) /

› GRYVOZE 3/4 Inch Digital Diesel Fuel Flow Meter IPX8 Instruction Manual

GRYVOZE DTFM-IN3/4-RWP

GRYVOZE 3/4 Inch Digital Diesel Fuel Flow Meter IPX8 Instruction Manual

Model: DTFM-IN3/4-RWP

1. INTRODUCTION

This manual provides detailed instructions for the GRYVOZE 3/4 Inch Digital Diesel Fuel Flow Meter, Model DTFM-IN3/4-RWP. This device is designed for accurate measurement of various liquids, featuring EMI protection, a waterproof IPX8 rating, and a clear digital LCD display. It supports a flow range of 4-50 LPM (1-13.2 GPM) and a working pressure of 6 Bar. Compatible liquids include water, diesel, gas oil, gasoline, kerosene, methanol, and E15.



Figure 1: GRYVOZE 3/4 Inch Digital Diesel Fuel Flow Meter

2. SAFETY INSTRUCTIONS

- Read all instructions carefully before installation and operation to ensure safe and correct usage.
- Ensure proper installation direction as indicated by the flow arrow on the meter body. Incorrect installation can lead to inaccurate readings or device malfunction.
- The meter's main body has an IPX8 waterproof rating. However, the internal PCB circuit board is not waterproof. Do not expose internal components to water during maintenance or battery replacement. Ensure the display panel is securely sealed after any service.
- This product is not NSF approved for potable water. If used with drinking water systems, be aware of potential risks related to material leaching.
- The meter features EMI protection to prevent false readings from nearby pumps or motors. However, always ensure a stable electromagnetic environment for optimal accuracy.
- Do not use this turbine flow meter with high-viscosity liquids such as lubricating oil or engine oil. For such applications, a gear flow meter is recommended for accurate measurement.



Figure 2: Waterproof Design and PCB Protection Note

3. PRODUCT OVERVIEW

The GRYVOZE Digital Diesel Fuel Flow Meter features a robust die-cast aluminum housing, providing corrosion resistance and high strength. The clear digital LCD screen displays instantaneous flow, single cumulative flow, and total cumulative flow. It includes 'CALIBRATE' and 'DISPLAY' buttons for operation and settings adjustment.

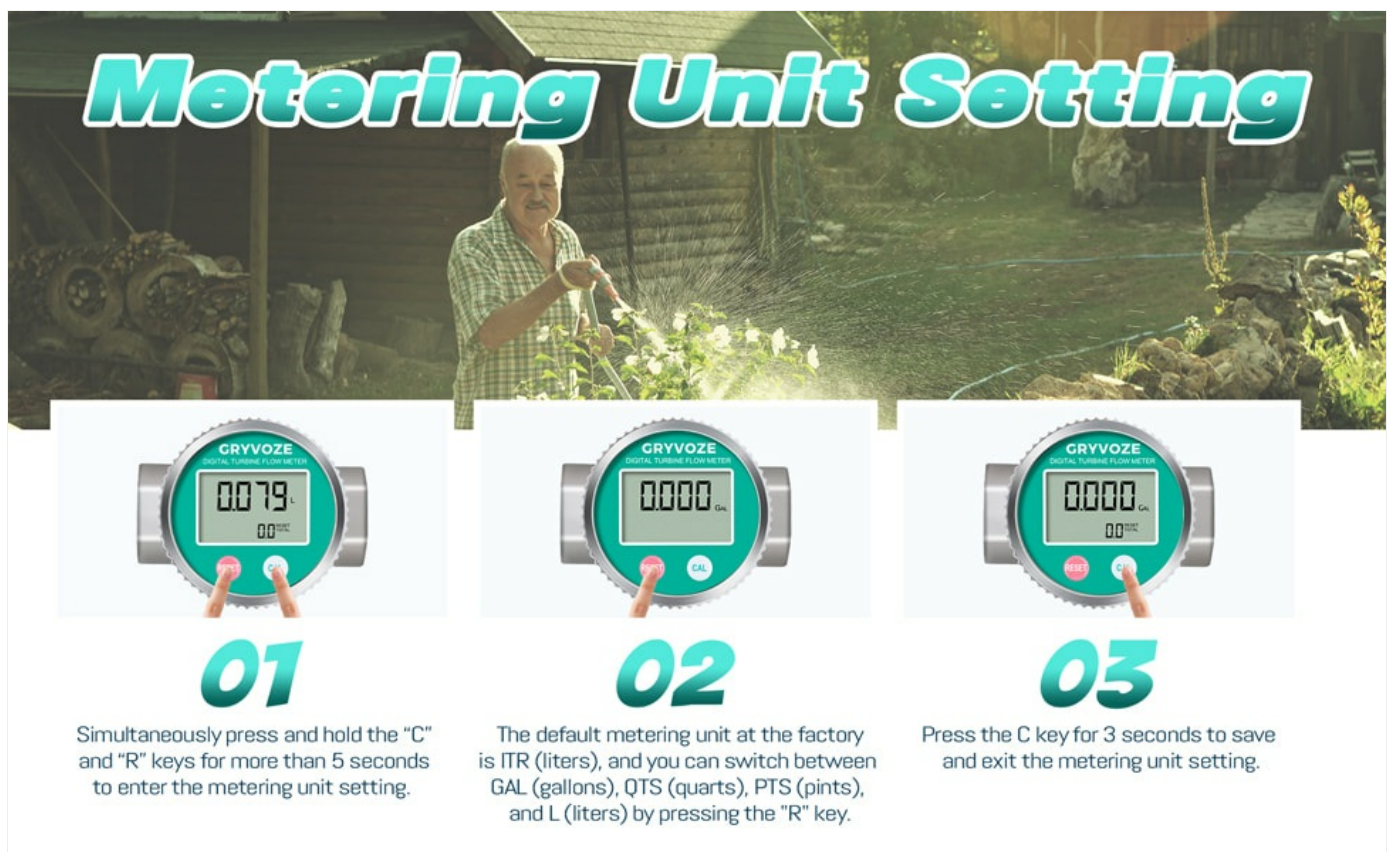


Figure 3: Flow Meter Display Components

ANTI-ELECTROMAGNETIC INTERFERENCE

Due to the use of magnetic induction for liquid measurement, the operation of pumps or motors generates a magnetic field that can interfere with the flow meter. This interference causes the flow meter to continue counting even when there is no liquid passing through it.

Unlike external products, our flow meter is equipped with anti-electromagnetic interference function, which allows it to be installed in close proximity to pumps or motors.

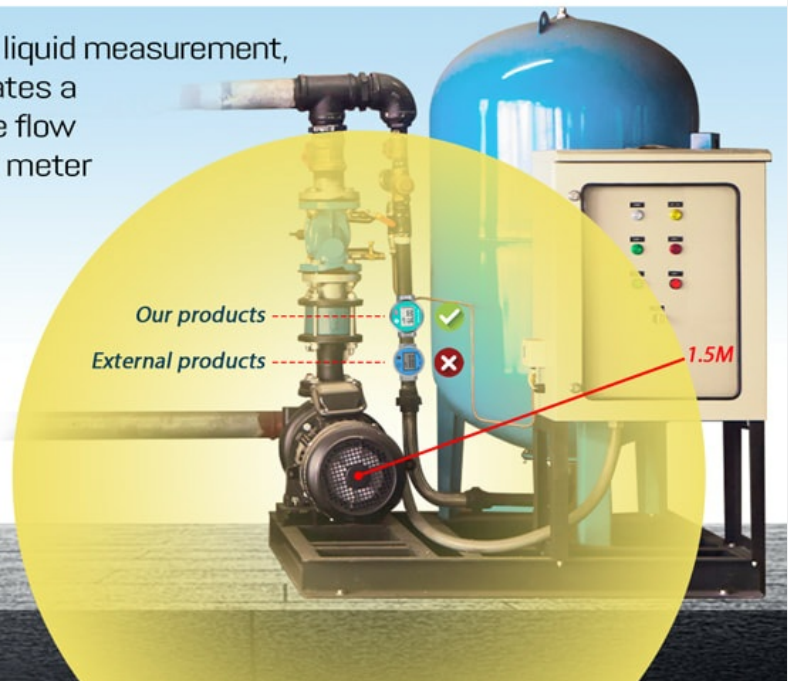


Figure 4: Internal PCB and Aluminum Housing

4. SETUP AND INSTALLATION

The flow meter must be installed in the direction indicated by the arrow on the meter body to ensure accurate readings. The meter features NPT threads for secure connection to your pipeline system. The display panel can be rotated 360 degrees for optimal viewing after installation. To adjust, press and hold the center screen, set your preferred viewing angle, then tighten the bezel to lock it in place.



Figure 5: Correct Flow Direction for Installation

Your browser does not support the video tag.

Video 1: Demonstrates how to rotate the flow meter display panel 180 degrees for optimal viewing after installation, ensuring it works perfectly regardless of pipe orientation.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

The display automatically turns off after 10 minutes of inactivity to save power. It will turn on when liquid flows through the meter or by pressing any key.

5.2 LCD Display

The LCD shows real-time instantaneous flow rates, a resettable single cumulative total, and a non-resettable total cumulative flow.

The selected unit is also displayed.



Please bear in mind that the flow meter should only be installed in the direction indicated by the arrow for proper flow direction.

Q&A

Q1

Does the memory retain data when batteries are replaced?

Yes, the memory is non-volatile, ensuring data retention even during battery replacement.

Q2

Is this flow meter suitable for high-viscosity liquids?

No, it is not. If you intend to measure high-viscosity liquids such as lubricating oil or engine oil, we recommend choosing a gear flow meter instead of a turbine flow meter!

Q3

Has it been calibrated at the factory?

Yes, the flow meter is calibrated at the factory to ensure you can use it out of the box. However, recalibration can improve accuracy, especially when using it for the first time or when changing the measured liquid.

Figure 6: LCD Monitor Display

5.3 Unit Switching

To switch between measurement units (GAL - US Gallons, QTS - Quarts, PTS - Pints, L - Liters), follow these steps:

1. Simultaneously press and hold both the 'CALIBRATE' (red) and 'DISPLAY' (white) buttons for 5 seconds to enter 'unit switching mode'. The current unit will flash on the display.
2. Click the 'DISPLAY' (white) button to cycle through the available units (m³, Qts, Pts, L, Gal (US)).
3. Long press the 'CALIBRATE' (red) button to save your selection and exit the unit switching mode.



Figure 7: Metering Unit Setting

5.4 Calibration

The flow meter is factory-calibrated to an accuracy of $\pm 1\%$. For specific applications or to fine-tune accuracy, on-site calibration may be performed. Refer to the detailed product manual for comprehensive calibration procedures and formulas.

Your browser does not support the video tag.

Video 2: Provides an overview of the GRYVOZE flowmeter's product functions and operating steps, including display modes and basic usage.

6. MAINTENANCE

6.1 Battery Replacement

The meter uses 2 x AAA LR03 batteries. The display panel can be removed to replace batteries without disconnecting the meter from the pipeline. The memory is non-volatile, ensuring data retention during battery replacement. A low battery icon will appear on the display screen, indicating the need for battery replacement.

6.2 Cleaning

Wipe the exterior of the flow meter with a damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure no liquids enter the internal PCB area, especially during cleaning of the display panel.

Your browser does not support the video tag.

Video 3: Illustrates the easy maintenance of the GRYVOZE flow meter, specifically showing how to remove the display panel for battery replacement without disconnecting the unit from the pipeline.

7. TROUBLESHOOTING

- **Inaccurate Readings:** Ensure the meter is installed in the correct flow direction. Verify the selected unit is appropriate for your measurement needs. If discrepancies persist, perform on-site calibration following the detailed manual's instructions.
- **No Display/Power Issues:** Check the battery level. Replace batteries if a low battery icon is displayed or if the screen is blank. Remember the display automatically turns off after 10 minutes of inactivity; activate it by pressing a button or initiating liquid flow.
- **Interference:** The meter is equipped with EMI protection. However, if unusual or false readings occur, check for strong electromagnetic sources (e.g., pumps, motors) in close proximity that might be causing interference.
- **Water Damage:** While the meter is IPX8 waterproof, the internal PCB is not. Ensure the display panel is securely sealed after battery replacement or maintenance to prevent water ingress to the circuit board, which can cause short circuits.



Figure 8: Anti-Electromagnetic Interference Feature



Figure 9: Common Questions and Answers

8. SPECIFICATIONS

Feature	Specification
Manufacturer	GRYVOZE
Model Number	DTFM-IN3/4-RWP
Item Weight	310 g
Product Dimensions	9.4 x 7.64 x 5.95 cm
Style	IPX8
Item Package Quantity	1
Measurement Accuracy	±1%
Included Components	3/4 Inch NPT Waterproof Digital Turbine Flow Meter
Batteries Included?	No (Requires 2 x AAA LR03 batteries)
Length	9.4 Centimetres
Width	7.64 Centimetres
Height	5.95 Centimetres
Country of Origin	China

9. SUPPORT

For technical support, inquiries, or assistance with your GRYVOZE Digital Diesel Fuel Flow Meter, please contact GRYVOZE customer service via email:

sunflower.smile20130401@hotmail.com

Please provide your product model number (DTFM-IN3/4-RWP) and a detailed description of your issue when contacting support to ensure a prompt and effective resolution.

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