



GREAT PLAINS INDUSTRIES, INC.
A Great Plains Ventures Subsidiary

Operations Guide for 01A Series Electronic Digital Fuel Meter



GENERAL INFORMATION

Congratulations on receiving your GPI fuel meter. These instructions will help you operate and maintain your meter. Content covered in these instructions include all models in the 01A Series of Electronic Digital Fuel Meters.

This meter is designed for use only with gasoline (up to 15% alcohol blends such as E15), diesel fuel (up to 20% biodiesel blends such as B20), biodiesel (B100) and kerosene. Do NOT use it with water, chemicals or for measuring fluids into aircraft. This meter is not legal for trade applications. The 01A Series meter is very sensitive to electrical “noise” and may not operate correctly if located near some electrical equipment. This meter has a permanent factory calibration for measuring gasoline, diesel fuel or kerosene. If installed and used correctly, you can expect accuracy within $\pm 5\%$.

INSTALLATION

Install the meter at the end of the hose adjacent to the nozzle or horizontally or vertically in-line. Make sure all threaded fuel connections are wrapped with three to four turns of thread tape or pipe thread sealant approved for use with petroleum fuels. Make sure the tape does not intrude into the flow path. Attach the meter to the hose with the arrow on the outlet port pointed in the direction of flow. Use fittings as necessary. Use a wrench at the housing ends to tighten the meter.

OPERATIONS

This meter will turn on automatically when it senses fuel flow. It can manually be turned on by pressing the DISPLAY button (“DISPLAY”). The meter will show the total from its last use. The meter turns off automatically if not used for about one minute.

Totals

This meter maintains two totals. The batch total (“TTL1”) may be reset to zero and measures flow during a single use. The cumulative total (“TTL2”) provides continuous measurement and may not be manually reset. When the cumulative total reaches a maximum reading of 9999, it automatically resets to zero.

Press the DISPLAY button (“DISPLAY”) briefly to switch between TTL1 and TTL2. With TTL1 showing, hold the DISPLAY button down for three seconds to zero the batch total.

MAINTENANCE

This meter is virtually maintenance free if the meter is kept clean and free of contaminants. It is important that the rotor moves freely. Apply a penetrating lubricant on the rotor, shaft and bearings if the rotor sticks. Use a soft brush or small probe to remove debris from the rotor. If compressed air is blown through the turbine assembly, it could damage the rotor.

Battery Replacement

Two AAA alkaline batteries provide power. When batteries are removed or lose power, the batch and cumulative totals reset to zero but the factory calibration is retained.

If the meter display becomes dim or blank, replace the batteries as follows:

1. Remove the four Phillips-head screws from the face of the meter and lift the faceplate from the turbine.
2. Remove the old batteries and clean any corrosion from the terminals.
3. Install new batteries, ensuring the positive posts are in the correct position.
4. When the batteries are replaced, the faceplate will power ON. Check the display to ensure normal functions have resumed before reassembling.
5. Reset batteries, if necessary, and position the faceplate on the turbine housing. To avoid moisture damage, make sure the O-ring is fully seated. The O-ring may need to be stretched to seat properly. Tighten the four screws on the faceplate.