01A Series
Electronic Digital Meter

Important Notice

The 01A Series meter is for use 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 to meter water or chemicals. Do not use for measuring fuel or other liquids into aircraft.

This meter is not legal for trade application.

The 01A Series meter is very sensitive to electrical "noise" and may not operate correctly if located near some electrical equipment.

Calibration

This meter has a permanent factory calibration for measuring gasoline, diesel fuel or kerosene. If installed and used correctly, inaccuracies of no greater than ±5% will be obtained.

Installation

Install the meter at the end of the fuel hose adjacent to the nozzle. This meter may also be installed in-line either horizontally or vertically. Install as follows:

1. Remove nozzle from hose.

2. Wrap all connections with 3 to 4 wraps of thread tape. Ensure the tape does not intrude into the flow path.

3. Attach meter to hose with arrow on outlet port pointed in the direction of flow.

4. Attach nozzle to meter. If necessary, use the enclosed 3/4-inch fitting.

5. With a wrench, tighten the meter at the housing ends.

NOTE: If the meter is located in a rigid piping system where the fluid is trapped (by gravity, valves, nozzles), thermal expansion of the fluid can create pressure spikes that can damage a meter. Install a thermal relief valve or otherwise allow for thermal expansion of the fluid.

Operation

Batch and Cumulative Totals

The 01A Series meter maintains two totals. Press the DISPLAY button briefly to switch between them. The batch total may be reset to measure flow during a single use. The cumulative total provides continuous measurement and may not be manually reset. When the cumulative total reaches a maximum reading of 9999, it will automatically reset to zero.

The batch total will display as TTL1 and the cumulative total as TTL2.

Activate the Meter

Turn the 01A Series meter ON by starting fuel flow or briefly pressing the DISPLAY button. The meter will display the batch

Reset Batch Total

Press DISPLAY briefly to display the batch total. Hold the DISPLAY button for three seconds to reset the batch total to zero.

Maintenance

Proper handling and care will extend the life and service of the meter.

Turbine Rotor

The 01A Series meter is virtually maintenance-free. However, it is important that the rotor moves freely. Keep the meter clean and free of contaminants.

If the rotor does not turn freely, apply a penetrating lubricant on the rotor, shaft and bearings. Remove any debris or deposits from the rotor using a soft brush or small probe. Be careful not to damage the turbine rotor or supports.

⚠ **CAUTION**
Blowing compressed air through the turbine assembly could damage the rotor.

Battery Replacement

The 01A Series meter is powered by two AAA alkaline batteries, which may be replaced while the meter is installed. 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. Reseat 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.

Repair

For warranty consideration or other repair work, contact GPI Customer Service toll-free at 1-800-835-0113. In Kansas, call 316-686-7361.

Repair should be performed by authorized service personnel only or the warranty will be void.

Freight to GPI must be prepaid. Send the

power by automatically turning OFF if not used for about one minute.

(Operation continued top next column.)

01A Series Specifications

	U.S.	Canada	International
Model	01A31GM	01A31LM	01A12LM
Unit of Measurement	Gallon	Litre	Litre
Flow Rate	3 to 30 GPM	10 to 100 LPM	10 to 100 LPM
Working Pressure	300 PSI	20.7 bar	20.7 bar
Operating Temperature	+14° F to +130° F	-10° C to +54° C	-10° C to +54° C
Storage Temperature	-40° F to +158° F	-40° C to +70° C	-40° C to +70° C
Threads	1-inch NPT 3/4 in. fittings included	1-inch NPT 3/4 in. fittings included	1-inch ISO No fittings included