01A Series Specifications

	U.S.	Canada	International
Model	01A31GM	01A31LM	01A52LM
Unit of Measurement	Gallon	Litre	Litre
Flow Rate	3 to 30 GPM	11 to 113 L/min	11 to 113 L/min
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, ¾-inch fittings included	1-inch NPT, ¾-inch fittings included	1-inch ISO RC (BSPT), no fittings included

Limited Warranty Policy

Great Plains Industries, Inc. (GPI) hereby provides a limited warranty against defects in material and workmanship on all products manufactured by GPI. The warranty period shall begin on the date of purchase confirmed with the original purchase receipt or, if not available, the date of manufacture. Manufacturer's sole obligation under the following warranties will be limited to either, at Manufacturer's option, replacing or repairing defective goods. If the product is no longer available, replacement may be made with a similar product of equal or greater value. Buyer's exclusive remedy for breach of any such warranties will be enforcement of such obligations of Manufacturer. The warranty shall extend to the purchaser of this product and to any person to whom such product is transferred during the warranty period.

Charges for shipping and insuring packages to GPI are the customer's responsibility. GPI will ship the warranted product back to the customer via ground shipping free of charge for shipments within the United States. International shipping charges and customs fees to and from GPI are the customer's responsibility.

GREAT PLAINS INDUSTRIES, INC., EXCLUDES LIABILITY UNDER THIS WARRANTY FOR DIRECT, INDIRECT, INCIDENTAL AND CONSEQUENTIAL DAMAGES INCURRED IN THE USE OR LOSS OF USE OF THE PRODUCT WARRANTED HEREUNDER.

THE COMPANY HEREWITH EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OTHER THAN FOR WHICH IT WAS DESIGNED.

THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM U.S. STATE TO U.S. STATE.

In compliance with MAGNUSON MOSS CONSUMER WARRANTY ACT– PART 702 *(governs the resale availability of the warranty terms)*

Warranty shall not apply if:

The product has been subjected to neglect, misuse, abuse or damage or has been installed or operated other than in accordance with the manufacturer's operating instructions or the product has been altered or modified outside the warrantor's duly appointed representative.

To obtain warranty service contact the GPI Product Support Department:

316-686-7361 or 800-835-0113

GPI will guide you through a product troubleshooting process to determine the appropriate corrective actions.

Product components considered wear items are not included within the scope of this warranty.

Accurate, Convenient, Reliable, and Economical

- ***For petroleum fuels only.*** *Factory calibrated for diesel fuel, gasoline, or kerosene. Not for use with water or chemicals.*
- ***1-inch inlet and outlet.*** *Kit includes (2) ¾-inch reducer fittings and a ¾ x 1-½-inch pipe fitting for use on ¾-inch nozzle installations. For 1-inch nozzle installations, a 1-inch close nipple is required (not included).*
- *For use with flow ranges of 3 to 30 GPM or 11 to 113 L/min with pump or gravity flow systems.*
- *Large, easy to read LCD display with batch total and cumulative total.*
- *Manual and automatic ON. Automatic OFF.*

GREAT PLAINS INDUSTRIES

Great Plains Industries, Inc.
GreatPlainsIndustries.com
800-835-0113

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Visit GPIpumps.com

01A Series

*Digital In-Line **Fuel Meter***

Compteur de carburant numérique en ligne

Medidor de combustible digital en línea



Protective bumper cushions the meter from impact

Flow Range
3-30 GPM

plage de débit
rango de flujo
11-113 L/min

2 YR METER WARRANTY

MADE IN THE U.S.A. of Globally Sourced Components

See inside for Owner's Manual.

FM APPROVED

AAA alkaline batteries included.

01A Series Digital In-Line Fuel Meter
Owner's Manual



Important Notice

The 01A Series meter is for use with diesel fuel (up to B100), gasoline (up to E15), 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.

Calibration

This meter is permanently calibrated to obtain the following accuracy when installed and used correctly.

FLUID TYPE	FLOW RANGE	ACCURACY
Diesel Fuel/ Kerosene	10-25 GPM	± 2.5% of reading
	3-30 GPM	± 5% of reading
Gasoline	10-25 GPM	± 3.5% of reading
	3-30 GPM	± 5% of reading

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. Use the enclosed 3/4-inch fittings to attach a 3/4-inch nozzle to meter. For 1-inch nozzle installations, a 1-inch close nipple is required (not included).
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.

NOTE: The meter is very sensitive to electrical “noise” and may not operate correctly if located near some electrical equipment.

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 or cumulative total from last use.

The meter is programmed to conserve power by automatically turning OFF if not used for about one minute.

Operation (continued)

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 debris.

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 black silicone bumper.
2. Remove the four Phillips-head screws from the face of the meter and lift the faceplate from the turbine.
3. Remove the old batteries and clean any corrosion from the terminals.
4. Install new batteries, ensuring the positive posts are in the correct position.
5. When the batteries are replaced, the faceplate will power ON. Check the display to ensure normal functions have resumed before reassembling.
6. Reseat batteries, if necessary, and position the faceplate on the turbine housing. To avoid moisture damage, make sure the faceplate 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 Product Support toll-free at 1-800-835-0113. In Kansas, call 316-686-7361.

GREAT PLAINS INDUSTRIES GPI®

Great Plains Industries, Inc.
GreatPlainsIndustries.com
800-835-0113

CERTIFIED QUALITY ISO 9001 MANAGEMENT SYSTEM

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