



# Owner's Manual for 01A31LM-A, 01A52LM-A and 01A12LM-A Electronic Diesel Meters



## IMPORTANT NOTICE

The 01A Series meter is for use with diesel fuel (up to 20% biodiesel blends such as B20) and biodiesel (B100). Do not use to meter gasoline, water, kerosene or chemicals. Do not use for measuring fuel or other liquids into aircraft.

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 water. If installed and used correctly, inaccuracies of no greater than  $\pm 5\%$  will be obtained.

## INSTALLATION

This meter may be installed in-line either horizontally or vertically or at the end of the hose adjacent to the nozzle, if present. Installation to metal connections is not recommended. Install as follows:

1. If necessary, remove nozzle from hose.
2. Apply pipe sealant to all threaded connections.
3. Attach meter to hose with arrow on outlet port pointed in the direction of flow.
4. If necessary, attach nozzle to meter.
5. Hand tighten the meter at the housing ends. Do not use a wrench or similar tools to tighten the meter housing. The plastic housing could be damaged.

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 or cumulative total from last use.

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

## MAINTENANCE

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

### Turbine Rotor

The meter is virtually maintenance-free. However, it is important 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 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. Make sure the positive post is in the correct position.
4. When the batteries are replaced, the face plate will power ON. Check the display to ensure normal functions have resumed before assembling again.
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. Tighten the four screws on the faceplate.

## SPECIFICATIONS

<b>Model:</b>	<b>01A31LM-A</b>	<b>Model:</b>	<b>01A52LM-A</b>
Unit of Measure:	Litres	Unit of Measure:	Litres
Flowrate:	11to113LPM	Flowrate:	11 to113LPM
Working Pressure:	21bar	Working Pressure:	21 bar
Operating Temperature:	-10°C to +54°C	Operating Temperature:	-10°C to +54°C
Storage Temperature:	-40°C to +70°C	Storage Temperature:	-40°C to +70°C
Threads:	1 inch NPT	Threads:	1 inch BSPP
<b>Model:</b>	<b>01A12LM-A</b>		
Unit of Measure:	Litres		
Flowrate:	11to113LPM		
Working Pressure:	21bar		
Operating Temperature:	-10°C to +54°C		
Storage Temperature:	-40°C to +70°C		
Threads:	1 inch ISO7(BSPT)		

### Limited Warranty Policy

Great Plains Industries Australia, hereby provides a limited warranty against defects in material and workmanship on all products manufactured by Great Plains Industries, Inc. This product includes a 2 year warranty from date of purchase as evidenced by the original sales receipt. A 30 month warranty from product date of manufacture will apply in cases where the original sales receipt is not available. Reference product labeling for the warranty expiration date based on 30 months from date of manufacture. Manufacturer's sole obligation under the foregoing warranties will be limited to either, at Manufacturer's option, replacing or repairing defective Goods (subject to limitations hereinafter provided) or refunding the purchase price for such Goods theretofore paid by the Buyer, and 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.

This warranty shall not apply if:

- A. the product has been altered or modified outside the warrantor's duly appointed representative;
- B. 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.

To make a claim against this warranty, contact the your local FLOMEC distributor or GPI Australia Customer Service Department at [sales@gpiaustralia.com.au](mailto:sales@gpiaustralia.com.au)

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

GREAT PLAINS INDUSTRIES AUSTRALIA, 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.

GPI Australia also provides automatic guarantees of all goods according to Australian Consumer Law.

# Declaration of Conformity

Manufacturer's Name: Great Plains Industries Australia  
Manufacturer's Address: 1/16 Atkinson Rd, Taren Point,  
NSW, Australia, 2219

Declares, that the product:  
Product Name: Electronic Digital Meter  
Model Numbers: 01A12LM-A, 01N12LM, 01A31LM-A,  
01A52LM-A, 01N31LM

Conforms to the following Standards:

EMC: EN 50081-1 : 1992 (Reference EN 55022)  
EN 55082-1 : 1992

Supplementary Information:

- The products comply with the requirements of the EMC Directive 89/336/EEC.
- The products conform to Council Directive 2011/65/EU and 2002-95-EC as amended (RoHS Directive) relating to the restriction of certain hazardous substances in electrical and electronic equipment.
- This product is not recommended for custody transfer or application where levying by consumption takes place.
- This product has insufficient internal volume size or pressure ratings to meet a pressure directive.
- Year of Manufacturing is displayed directly on the product as Manufacturing Date Code (Mfg.) indicating month and year.

I the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Signature:



Full Name:

Matthew Wyres

Position:

Engineering Manager  
Great Plains Industries Australia  
Taren Point, NSW, Australia

Place:

May, 2017




**GREAT PLAINS INDUSTRIES AUSTRALIA**



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