



01N31GM, 01N31LM and 01N12LM Electronic Turbine Meters



IMPORTANT NOTICE

Use this meter for water, compatible light chemicals, and DEF (ISO 22241). Do not use to meter fuel.

This meter is not legal for trade applications.

The 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.

OPERATION

Batch and Accumulative Totals

The meter maintains two totals. The batch total may be reset to measure flow during a single use. The accumulative total provides continuous measurement and may not be manually reset. The batch total is labeled as TTL1. The accumulative total is labeled TTL2.

When the accumulative total reaches a maximum reading of 9999, it will automatically reset to zero.

Press the DISPLAY button briefly to switch between the batch and accumulative totals.

Activate the Meter

Turn the meter ON by starting water flow or briefly pressing the DISPLAY button. The meter will display the batch or accumulative total from last use.

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

The meter is programmed to turn off automatically if not used for about one minute.

MAINTENANCE

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

Turbine Rotor

The 01N Series meter is virtually maintenance-free. However, it is important that the rotor move 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 that may be replaced while the meter is installed. When batteries are removed or lose power, the batch and accumulative 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 faceplate 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

Model:	01N31GM
Unit of Measure:	Gallons
Flowrate:	3 to 30 GPM
Working Pressure:	150 PSIG
Operating Temperature:	+14°F to +130°F
Storage Temperature:	-40°F to +158°F
Threads:	1 inch NPT

Model:	01N31LM
Unit of Measure:	Litres
Flowrate:	10 to 100 LPM
Working Pressure:	10.3 bar
Operating Temperature:	-10°C to +54°C
Storage Temperature:	-40°C to +70°C
Threads:	1 inch NPT

Model:	01N12LM
Unit of Measure:	Litres
Flowrate:	10 to 100 LPM
Working Pressure:	10.3 bar
Operating Temperature:	-10°C to +54°C
Storage Temperature:	-40°C to +70°C
Threads:	1 inch ISO

GPI® TWO-YEAR LIMITED WARRANTY

Great Plains Industries, Inc. 5252 E. 36th Street North, Wichita, KS USA 67220-3205, 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, or for technical assistance or repair, contact the GPI Customer Service Department at one of the locations below.

In North or South America contact
Great Plains Industries, Inc.
5252 East 36th St. North
Wichita, KS 67220-3205
USA
800-835-0113
www.greatplainsindustries.com
(North America)

Outside North or South America contact
GPI Australia
(Trimec Industries Pty. Ltd.)
12/7-11 Parraweena Road
Caringbah NSW 2229
Australia
+61 02 9540 4433
www.flomec.com.au

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

NOTE: In compliance with MAGNUSON MOSS CONSUMER WARRANTY ACT – Part 702 (governs the resale availability of the warranty terms).

Wichita / Sydney

GREAT PLAINS INDUSTRIES



© 2025 Great Plains Industries, Inc., All Rights Reserved.
Great Plains Industries, Inc. / 800-835-0113 / greatplainsindustries.com