

Industrial Grade Oval Gear Enhanced Electronic Meter Model LM51DN - 1/2"



DESCRIPTION

The model LM51DN electronic lube meter is designed specifically to dispense motor oils (SAE 5...50), gear oils (SAE 80...240), automatic transmission fluid, antifreeze (Ethylene Glycol), brake fluid, windshield wiper fluid, and engine coolant solutions. Modular design, low cost, lightweight and rugged make the LM51DN the best choice for overhead reel systems.

The electronic register module contains a microprocessor board powered by a lithium battery. It can be programmed to dispense in pints, quarts, liters, or US gallons and will totalize in liters or US gallons. The meter calibration factor is determined during factory test. The meter can be recalibrated in the field for fluids of different viscosity if required. A 6-digit liquid crystal display, accurate to the second decimal place, shows the exact amount of fluid dispensed. The entire register module is protected from the wear and tear of normal shop use by a rugged, glass filled, shock resistant, nylon housing.

OPERATION

As fluid passes through the metering chamber by entering the inlet port, the internal gears rotate, forcing the fluid to exit through the outlet port. Each rotation of the gear displaces a given volume of fluid.

The display shows the amount of fluid dispensed since the last time the reset button was pushed. Pushing the reset button will reset the display to zero for the next dispense.

To Change the Unit of Measure

1. Press **TOTAL** three times followed by **RESET** three times in a period of under 2 seconds. The active unit of measure symbol will flash when you have entered programming mode.
2. Press **RESET** until desired unit of measure flashes on the display.
3. To exit the programming mode, press and hold **RESET** and **TOTAL** simultaneously for 3 seconds.

NOTE: When a unit of measure is changed, the non-resettable and resettable totalizers convert their respective volumes to the new unit of measure (same volume, different unit of measure).



To Program the Scale Factor

1. Press **TOTAL** three times followed by **RESET** three times in a period of under 2 seconds. The active unit of measure symbol will flash when you have entered programming mode.
2. Press **TOTAL** to advance to the first digit of the scale factor.
3. The selected digit will blink. Push **RESET** to change the value.
4. When the proper value displays, push **TOTAL** to move to the next digit.
5. Continue until the correction factor has been entered.
6. To exit the programming mode, press and hold **RESET** and **TOTAL** simultaneously for 3 seconds.

The display will flash three times and then go blank to indicate the changes have been saved.

FEATURES

- 1500 psi rating
- NPT Threads
- Large 6-digit LCD display with two decimal-point precision
- Dispense total display in pints, quarts, US gallons or liters
- Unit of measure selectable from the front of register
- Totalization in US gallons and liters
- Resettable and non-resettable totalizers
- Display operation temperature range: -4°F to +140°F (-20°C to +60°C)
- Low battery indicator
- Long life field replaceable top load battery
- Accuracy of $\pm 0.5\%$
- Calibration factor programmable from front of register
- Calibration factor saved in non-volatile memory

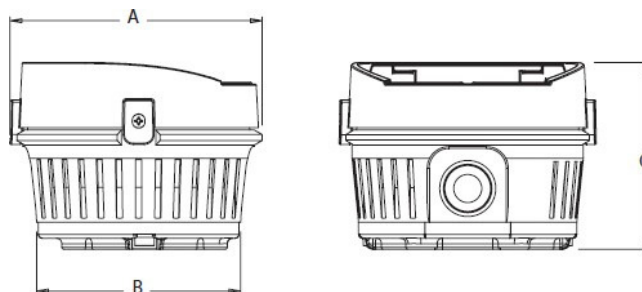
NOTE: The use of meters in applications other than those described in this material may result in inaccuracy and possible meter failure. Each meter is designed for use with a specific type of fluid. Do not use petroleum-based products in a meter designed for water-based fluids, or water-based fluids in a meter designed for petroleum-based products. It is also important that fluids be properly filtered before entering the meter. Foreign particles will cause inaccuracy or malfunction of the meter. Warranties are void in the circumstances described above.

SPECIFICATIONS

Meter Model:	LM51DN
Maximum Flow:	8 GPM (30 LPM)
Minimum Flow:	0.25 GPM (1 LPM)
Operating Pressure (Max.):	1500 psi (103 bar)
Operating Pressure (Min.):	5 psi (0.35 bar)
Operating Temperature (Max.):	+140°F (+60°C)
Operating Temperature (Min.):	-4°F (-20°C)
Accuracy:	$\pm 0.5\%$
Weight:	2.0 lb. (0.9kg)
Inlet & Outlet Connections:	1/2" FNPT

DIMENSIONS

Dimension	Size
A	4.04 in. (102.6 mm)
B	3.27 in. (83 mm)
C	2.99 in. (75.8 mm)



FLOMEC® 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. 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.

The warranty period shall begin on the date of manufacture or on the date of purchase with an original sales receipt. This warranty shall not apply if:

- the product has been altered or modified outside the warrantor's duly appointed representative;
- 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 your FLOMEC distributor or contact FLOMEC at one of the locations below.

In North or South America contact

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

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