

DESCRIPTION

The electronic register module contains a microprocessor board powered by a lithium battery with an expected life of 3 ... 5 years depending on use. It can be programmed to dispense in pints, quarts, liters, or gallons and will totalize in liters or gallons. A calibration factor and unit of measure are programmed during factory test. Unlike mechanical meters, these units can be electronically recalibrated in the field when necessary. A 5-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, it forces the internal gears to rotate and exits through the outlet port. Each rotation of the gear displaces a given volume of fluid. Controlled clearances between the gears and chamber wall insure minimum leakage. As the gears rotate, a magnet on each end of the gear activates the microprocessor in the register. Pressing the RESET button before each use resets the totalizer to zero. Squeezing the trigger handle dispenses the fluid. The total amount of fluid dispensed from inventory can be checked periodically by pressing the TOTAL button. If the units dispensed are pints, quarts, or gallons, the totalizer will read in gallons. If the units dispensed are liters, the totalizer will read in liters.

APPLICATIONS

The electronic meter is designed to dispense industrial fluids and AdBlue®.

FEATURES

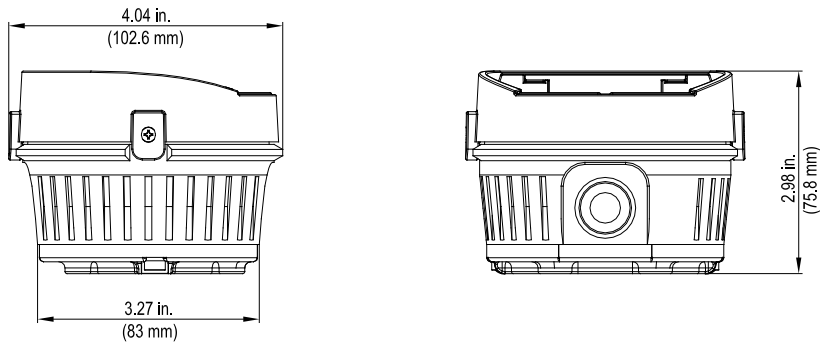
- Does not require external power
- Rugged, corrosion resistant stainless steel enclosure
- Watertight, NEMA 4X housing
- Compatible with most flow controllers and counters with scaling capabilities
- Humidity and moisture resistant transmitter (IP65)



FEATURES

- Leakproof, magnetic drive
- Large LCD Display
- One decimal point precision
- Push button calibration
- Totalization in gallons or liters
- Delivery in pints, quarts, liters or gallons
- Only two parts to reduce maintenance costs
- Accuracy to $\pm 0.5\%$
- Minimum three year battery life
- Low battery indicator
- Replaceable battery
- Battery shelf life: 10 years
- Humidity and moisture resistant register
- Two-year warranty

DIMENSIONS



SPECIFICATIONS

	LM OG-I SS-CND
Flow rate*	0.14 ... 9.24 gpm (0.5 ... 35 lpm)
Operating pressure	5.08 ... 1450.38 psi (0.35 ... 100 bar)
Operating temperature	-4 ... 176 °F (-20... 80 °C)
Accuracy	±0.5%
Weight, with handle and outlet	4.5 ls (2.0 kg)
Display	5-digit LCD display, 5/16 in. high (8 mm)
Inlet & outlet connections	1/2 in. BSPP

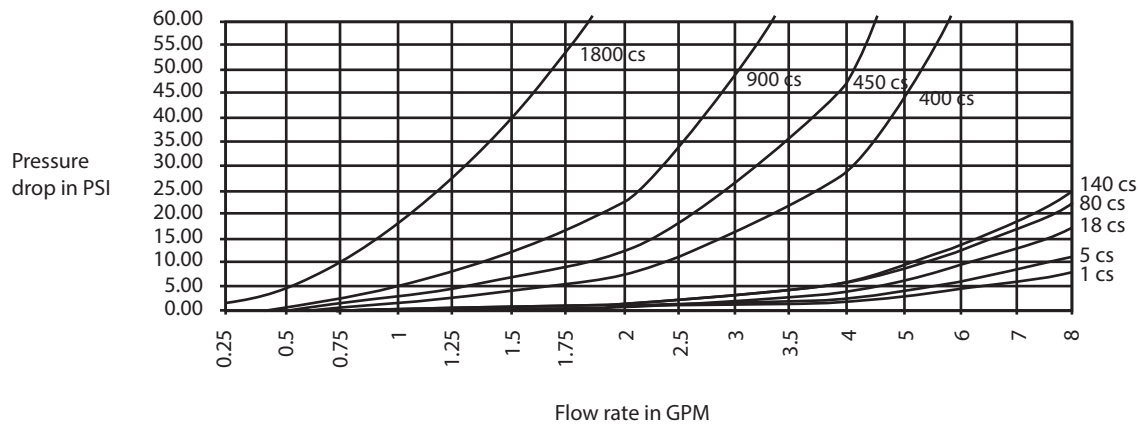
* Tested with Mobil DTE-25 motor oil at ambient temperature. Min./max. flow rates will vary with fluid viscosity

MATERIALS

	LM OG-I SS-CND
Housing	Stainless steel 1.4301
Oval Gears	Vectra (LCP-plastic)
O-ring	Viton (Kalrez optional)

OVAL GEAR PRESSURE DROP VS FLOW RATE FOR VARIOUS FLUIDS

Viscosities in centistokes (11-19-96)



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