



## Model LM OG-I-PVC for industrial applications



### Description

The Badger electronic oval gear meter is designed specifically to dispense industrial fluids. Modular design, low cost, light weight and rugged make the OG the best choice for overhead reel systems.

The electronic register module contains a microprocessor board powered by a lithium battery with an expected life of 4 years depending on use. It can be programmed to dispense in pints, quarts, 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 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.

### Features

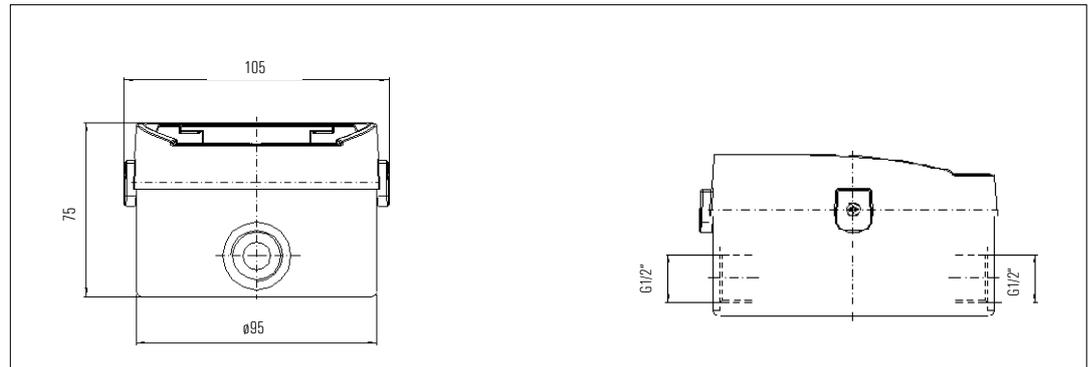
- Leakproof, magnetic drive
- Large LCD Display
- Three decimal point precision
- Totalization in gallons or liters
- Delivery in pints, quarts, liters or gallons
- Only two parts to reduce maintenance costs
- Accuracy to  $\pm 0.5\%$  (linearisation possible)
- About 4 years battery life
- Low battery indicator
- Replaceable battery
- Battery shelf life – 10 years
- Humidity and moisture resistant register
- Two year limited warranty
- Not for use in Ex-zone

### 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. The ILR displays have a resettable and a non-resettable totalizer; actual flow rate can be shown in l/min.

Caution: The use of meters in applications other than those described in this bulletin 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 as well as possible malfunction of the meter. Warranties are void in the circumstances described above.

## Dimensions (mm)



## Technical data

|  | ANSI                 | Metric    |
|--|----------------------|-----------|
| Maximum flow*                                      | 8 gpm                | 35 l/min  |
| Minimum flow*                                      | 0.13 gpm             | 0.5 l/min |
| Operating pressure (maximum)                       | 145 psi              | 10 bar    |
| Operating pressure (minimum)                       | 4,5 psi              | 0.30 bar  |
| Operating temperature (maximum)                    | 110° F               | 45° C     |
| Operating temperature (minimum)                    | -14° F               | -10° C    |
| Accuracy (non-approved version) at viscosity > 5cP | ± 0.5%               | ± 0.5%    |
| Accuracy (non-approved version) at viscosity < 5cP | ± 1,0 %              |           |
| Weight, less handle                                | 2.5 lbs              | 1.0 kg    |
| 5-digit LCD display, 5/16" high (8 mm)             | Pints-Quarts-Gallons | Liters    |
| Inlet & outlet connections                         | 1/2" BSPP            | 1/2" BSPP |

\*Tested with water at ambient temperature

| Materials      |                        |
|----------------|------------------------|
| Housing        | PVC                    |
| Internal gears | LCP - Plastic (Vectra) |
| Bottom / axial | SS 1.4301              |

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