

**Model OGT  
OGT-SF**

**Oval Gear Transmitter**

**Technical  
Brief**

### GENERAL

The Badger electronic lube meter is designed specifically to dispense motor oils (S.A.E. 5-50), gear oils (S.A.E. 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 OGT the best choice for automated dispensing systems.

The transmitter mounted on the meter can be wired to batch controllers, remote counters and other electronically operated instruments that can accept pulses from a reed switch, and have scaling capabilities. The oval gear transmitter is contained in a plastic 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. Controlled clearances between the gears and chamber wall insure minimum leakage.

As the gears rotate, a magnet on each end of the gear causes the reed switch to open and close. Contact closures from the switch are transmitted to a remote batch controller or counter.

### APPLICATIONS

This transmitter is normally connected to metering systems that have scaling capabilities and that can accept a reed switch pulse.

Typical applications are automated motor oil batching systems, antifreeze dispensing systems and other applications that require totalizing meter flow and monitoring rate of fluid flow passing through the meter.

### **⚠ CAUTION**

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 as well as possible malfunction of the meter. Warranties are void in the circumstances described above.



### FEATURES

- 1500 PSI Rating
- Leakproof, Magnetic Drive
- Does not require external power
- Rugged, corrosion resistant plastic enclosure
- Hermetically sealed reed switch output
- Compatible with most flow controllers and counters with scaling capabilities
- Only Two Parts to Reduce Maintenance Costs
- Accuracy to  $\pm 0.75\%$
- Humidity and Moisture Resistant Transmitter
- Two Year Limited Warranty

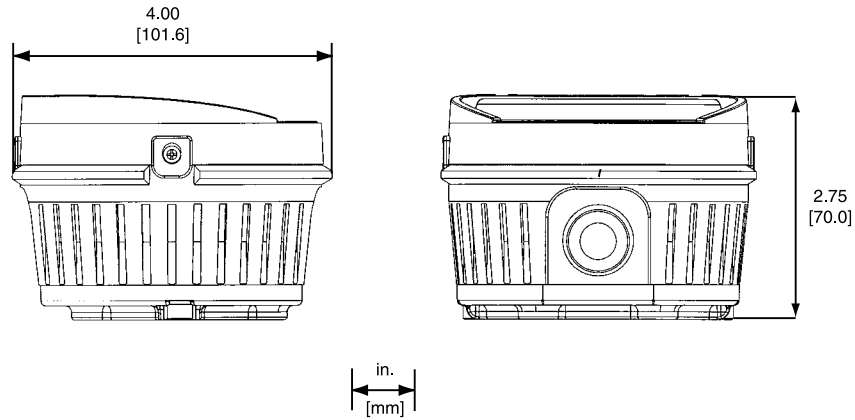


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## Dimensional Drawing



## SPECIFICATIONS

	OGT	
	English	Metric
Maximum Flow	8 gpm	30 liters/minute
Minimum Flow	0.25 gpm	1.0 liters/minute
Operating Pressure (Maximum)	1500 psi	103 bar
Operating Pressure (Minimum)	5 psi	.35 bar
Operating Temperature (Maximum)	140° F	60° C
Operating Temperature (Minimum)	20° F	-7° C
Accuracy	+/- 0.75%	+/-0.75%
Weight	2.0 lbs	0.9 kg
Pulse Rate	95 pulses/quart	100 pulses/liter
Read Switch Rating	120 VAC @ 10 watts	120 VAC @ 10 watts
Inlet & Outlet Connections	1/2" NPTF	1/2" BSPP

OGT is used for petroleum based product applications.

	OGT-SF Special Fluids Meter	
	English	Metric
Maximum Flow *	6 gpm	23 liters/minute
Minimum Flow *	1.0 gpm	3.8 liters/minute
Operating Pressure (Maximum)	1500 psi	103 bar
Operating Pressure (Minimum)	5 psi	.35 bar
Operating Temperature (Maximum)	140° F	60° C
Operating Temperature (Minimum)	20° F	-7° C
Accuracy	+/- 1.0%	+/-1.0%
Weight	2.0 lbs	0.9 kg
Pulse Rate	95 pulses/quart	100 pulses/liter
Reed Switch Rating	120 VAC @ 10 Watts	120 VAC @ 10 Watts
Inlet & Outlet Connections	1/2" NPTF	1/2" BSPP

OGT-SF is required for wiper fluids, brake fluid, and engine coolant mixed with water.

Please ensure that the fluid is properly filtered before entering meter. Foreign particles will cause inaccuracy as well as malfunction of meter.



Please see our website at  
[www.badgermeter.com](http://www.badgermeter.com)  
 for specific contacts.

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding contractual obligation exists.



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