

LM OG-HFT

Pulse transmitter / Line meter "High Flow" for non-custody transfers



Features

- 1" and 3/4" threads BSP
- Oval gear driven meter
- Does not require external power
- Rugged, corrosion resistant plastic enclosure
- Humidity and moisture resistant transmitter
- Hermetically sealed reed switch output
- Compatible with most flow controllers and counters with scaling capabilities
- Accuracy to $\pm 0.5\%$

Description

The model LM OGT-HF High Flow meter is designed to handle flow rates up to 115 l/m. The meter is designed specifically to dispense motor oils, gear oils, automatic transmission fluid, antifreeze (Ethylene Glycol), and engine coolant. Modular design, compact foot print, and rugged design make the LM OG-HFT 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

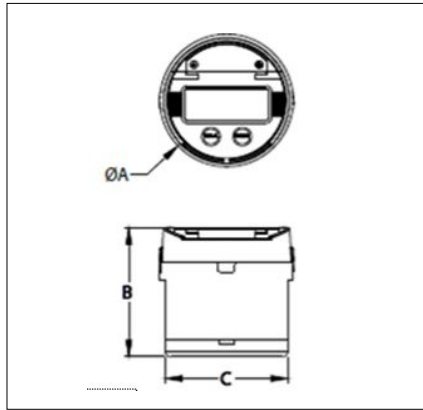
The use of meters in applications other than those described in this material may result in inaccuracy and possible meter failure. This meter is designed for petroleum-based products. It is also important that fluids be properly filtered before entering the meter. Foreign particles will cause inaccuracy as well as possible malfunction of the meter. Warranties are void in the circumstances described above.

Technical data

	3/4"	1"
Maximum flow *	60 l/min	115 l/min
Minimum flow *	2 l/min	2 l/min
Operating pressure (maximum)	140 bar	140 bar
Operating pressure (minimum)	0,35 bar	0,35 bar
Operating temperature (maximum)	+ 80 °C	+ 80 °C
Operating temperature (minimum)	- 20 °C	- 20 °C
Accuracy < 5,0 cP	± 2 %	± 2 %
Accuracy > 5,0 cP	± 0,5%	± 0,5 %
Weight	0,82 kg	0,82 kg
Inlet & outlet connections	3/4" BSPP	1" BSPP
Pulses per liter	61,5	61,5
Protection class	IP 65	IP 65

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

Dimensions (cm)



Port size	A	B	C
3/4"	3,94" (100 mm)	3,84" (98 mm)	3,62" (92 mm)
1"	3,94" (100 mm)	3,84" (98 mm)	3,62" (92 mm)

Register model	Register features
ILR 700 standard register	<ul style="list-style-type: none"> • Flow rate or totalizer display selectable in the programming menu • Selectable unit of measure
ILR 710 single pulse output	<ul style="list-style-type: none"> • Scalable pulse output • Ability to set pulse output length
ILR 730 analog output	<ul style="list-style-type: none"> • Analog 4-20mA output representing the flow rate of the meter • Minimum and maximum values can be set for analog output
Note: The ILR 710 and 730 have the standard features of the ILR 700.	
ILR 740 transmitter	Transmitter (reed switch)