

DESCRIPTION

The electronic register module contains a microprocessor board powered by a lithium battery with an expected life of 5 years, depending on use. You can program the register to batch in pints, quarts, liters, or gallons and to totalize in liters or gallons. A calibration factor and unit of measure are programmed during factory test. Unlike mechanical registers, these units can be electronically recalibrated in the field, when necessary. A 6-digit liquid crystal display, accurate to three decimal places, shows the exact amount of fluid that has passed through the meter. The entire register module is protected from normal wear and tear by a rugged, shock-resistant housing.

OPERATION

The Industrial Oval Gear meter has magnets on the gears. When the gears rotate, the magnets cause the reed switches to send pulses to the ILR register.

The ILR register is in a sleep mode until it detects the pulses caused by fluid going through the meter. The microprocessor in the register then measures the flow and displays either the batch totalization or the flow rate of the fluid going through the meter.

The ILR register's batch totalizer is a 6-digit display with three places of resolution after the decimal point. If the total dispensed exceeds 999.999, the display shifts to show only 2 digits after the decimal point (9999.99) and continues to shift to the maximum value of 999999. After reaching 999999, the batch totalizer rolls over to 0.000. The Reset button resets the batch totalizer to zero.

The ILR also has a resettable totalizer that requires that the total and Reset buttons both be pressed to reset. Hold down the Total button, then press the Reset button to reset this totalizer while resettable totalize is displayed. Use this feature for multiple batch totalization purposes.

The ILR's lifetime totalizer is 11 digits and displays in gallons or liters based on the unit of measure selected. Push and hold the Total button while the lifetime totalizer is displayed to show the full 11-digit lifetime totalizer value.

See the Industrial Oval Gear Meters and Registers user manual for installation, operation and additional detailed information.

APPLICATIONS

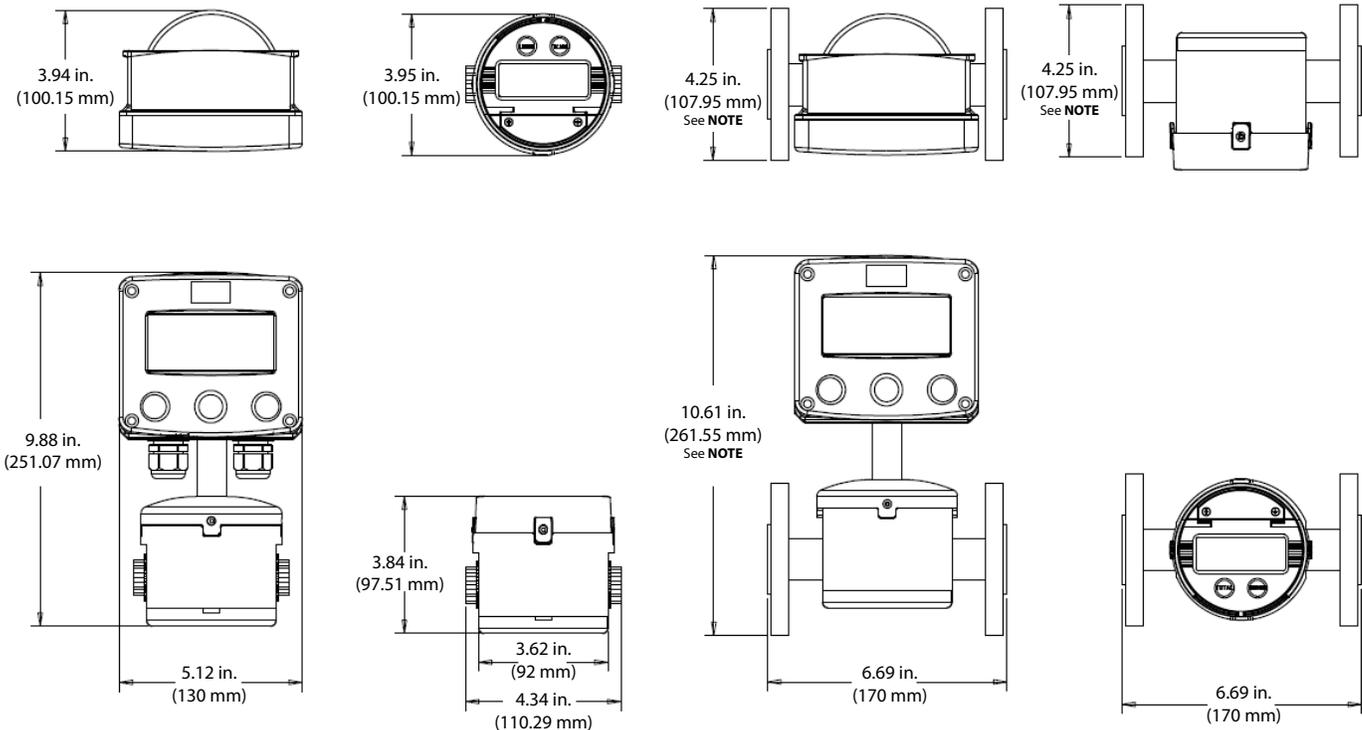
The Badger Meter® Industrial Line Electronic Registers are used in conjunction with the Industrial Oval Gear meter. The Industrial Oval Gear Meter is designed for a variety of applications including petroleum-based fluids, water solutions and any other liquid compatible with the materials of construction.



BASIC FEATURES

- Large 6-digit LCD display with 3 decimal-point precision for batch total display
- Batch total display in pints, quarts, gallons or liters, selectable from the front of the register
- Non-resettable lifetime totalization in gallons or liters, 11 digits
- Resettable totalizer, 5 digits
- Temperature range is $-40 \dots 257^{\circ} \text{F}$ ($-40 \dots 125^{\circ} \text{C}$)
See "Specific Register Features" on page 2 for temperature ranges for each register model
- Low battery indicator
- Long life field replaceable top load battery
- Calibration factor programmable from front of register
- Calibration factor saved in non-volatile memory
- Programmable meter pulse rate in pulses per gallon or pulses per liter

DIMENSIONS



NOTE: Flanged dimensions are based on a 1 in. stainless steel class 150 flange; OD of flange varies with meter size and flange class/material; Lay length remains 170 mm for all flanged variations

SPECIFIC REGISTER FEATURES

The ILR 740 and 750 all have the standard features of the ILR 701.

Register Model	Register Features	Temperature Ranges
ILR 701 Standard Register	<ul style="list-style-type: none"> Improved resolution due to quadrature signals on the reed switch input Register can be mounted inline or perpendicular to flow Flow rate or totalizer display selectable in the programming menu Selectable unit of measure 	-4...176° F (-20...80° C)
ILR 750	<ul style="list-style-type: none"> Scalable pulse output Ability to set pulse output length Analog 4...20 mA output representing the flow rate of the meter Minimum and maximum values can be set for analog output 	
ILR 740 Transmitter	Transmitter (reed switch)	-40...257° F (-40...125° C)
ILR 741 Transmitter	NEMA 4x enclosure and adapter	
ER 420 Flow rate/Totalizer	Refer to the ER 420 product data sheet and user manual for additional, detailed information.	-22...176° F (-30...80° C)
ER 500 Flow rate/Totalizer	Refer to the ER 500 product data sheet and user manual for additional, detailed information.	-22...158° F (-30...70° C)

NOTE: The ILR register series is not compatible with 3 in. meters.

Control. Manage. Optimize.

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