

Industrial Oval Gear

Meter Registers

DESCRIPTION

The electronic register module contains a microprocessor board powered by a lithium battery with an expected life of 5 years depending on use. It can be programmed to batch 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 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

Industrial oval gear meter has magnets on the gears that cause the reed switches to send pulses to the ILR register as they rotate.

The ILR register is in a sleep mode until it detects these pulses caused by fluid going through the meter. The microprocessor in the register then measures the flow and will display either the batch totalization or the flow rate of the fluid going through the meter on the 6-digit display.

The ILR registers batch totalizer is a 6-digit display with three places of resolution after the decimal point. If the total dispensed exceeds 999.999 then the display will shift and only 2 digits will be displayed after the decimal point, 9999.99 and will continue to shift to the maximum value of 999999. After reaching 999999 the batch totalizer will rollover to 0.000. The batch totalizer is reset to zero when the reset button is depressed.

The ILR also has a resettable totalizer that requires that the total and reset button both be depressed to reset (hold the Total button, then press the Reset button to reset this totalizer while resettable totalize is displayed). This would be used for multiple batch totalization purposes.

The ILR's life time totalizer is 11 digits and will either be in gallons or liters based on the unit of measure selected. Pushing and holding the total button while the life time totalizer is displayed will display the full 11-digit life time totalizer value.

For ILR Series, see the Industrial Oval Gear & Registers manual, IOM-189, 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.



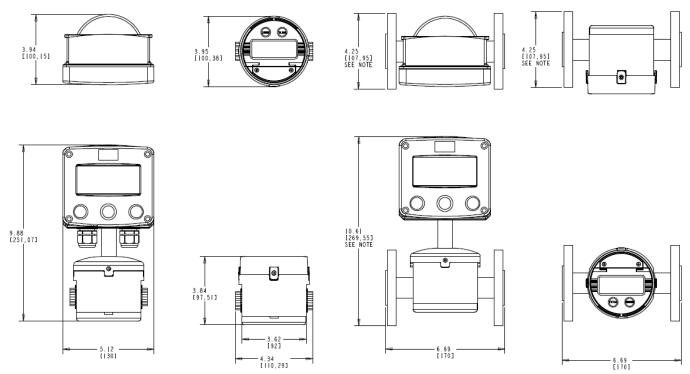


BASIC FEATURES

- 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
- Display Operation Temperature Range for ILR Series: ILR: – 4...176° F (–20...80° C) ER 420: –22...176° F (–30...80° C)
- 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

Product Data Sheet

DIMENSIONS



FLANGED DIMENSIONS ARE BASED OFF A 1 STAINLESS STEEL CLASS ISO FLANGE - OD OF FLANGE WILL VARY WITH METER SIZE AND FLANGE CLASS/MATERIAL - LAY LENGTH REMAINS 170mm FOR ALL FLANGED VARIATION:

SPECIFIC REGISTER FEATURES

Register Model	Register Features
ILR 700 Standard Register	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
ILR 710 Single Pulse Output	Scalable pulse output
	Ability to set pulse output length
ILR 720 Dual Pulse Output	Quadrature pulse output can be used externally to detect direction of flow
	External Reset Input
ILR 730 Analog Output	Analog 420 mA output representing the flow rate of the meter
	Minimum and maximum values can be set for analog output
NOTE: The ILR 710, 720 and 730 all have the standard features of the ILR 700.	
ILR 740 Transmitter	Transmitter (reed switch)
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.

Control. Manage. Optimize.

Trademarks appearing in this document are the property of their respective entities. 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. © 2015 Badger Meter, Inc. All rights reserved.

www.badgermeter.com

The Americas | Badger Meter | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400 México | Badger Meter de las Americas, S.A. de C.V. | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882

Europe, Middle East and Africa | Badger Meter Europa GmbH | Nurtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0 Europe, Middle East Branch Office | Badger Meter Europa | PO Box 341442 | Dubai Silicon Oasis, Head Quarter Building, Wing C, Office #C209 | Dubai / UAE | +971-4-371 2503 Czech Republic | Badger Meter Czech Republic s.r.o. | Maříkova 2082/26 | 621 00 Brno, Czech Republic | +420-5-41420411

Slovakia | Badger Meter Slovakia s.r.o. | Racianska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01 Asia Pacific | Badger Meter | 80 Marine Parade Rd | 21-06 Parkway Parade | Singapore 449269 | +65-63464836

China | Badger Meter | 7-1202 | 99 Hangzhong Road | Minhang District | Shanghai | China 201101 | +86-21-5763 5412