

# LIQUID CONTROLS



## Vehicle Mounted Delivery Systems



## Premier products, premier performance

### Applications

**Tank wagons and transports**

**LPG bobtails**

**Aviation refuelers**

**Hydrant carts**

### Features

**Simple RUN, STOP, PRINT operation**

**Weights & Measures approved**

**NEMA 4X enclosure**

**Class I Division 2, Groups C & D**

**Multiple product calibrations**

**Multi-Point calibration**

**Electronic temperature volume compensation (ETVC)**

**RS232/RS485 communication**

Liquid Controls has been in the custody transfer metering business for nearly 60 years and has more than 30 years experience in electronic registration. We were here yesterday and will be here tomorrow, bringing you continued service and product innovation to meet the changing needs of the industry. For truck-mounted custody transfer applications requiring Weights & Measures-approved accuracy, LC meter systems deliver consistent, error-free, dependable service.

Liquid Controls' family of LectroCount electronic registers provide near-perfect metering accuracy over a full range of flow rates and deliver enhanced functions including: automated data collection, on-site ticket generation, meter linearization, electronic temperature volume compensation, improved security, and more.

Compatible with virtually all flow meters, the NEMA 4X LectroCount LCR-II and LCR 600 electronic registers are UL Class I, Division 2 listed and Weights & Measures approved, and LectroCount electronic registers are easily field calibrated to Weights & Measures standards.

### The Advantages of Liquid Controls Electronics

#### IMPROVED EFFICIENCY

- Electronic presetting
- No more hand written tickets
- Reduced delivery time

#### SUPERIOR ACCURACY

- Multi-point calibration

#### INCREASED PROFITABILITY

- No more manual pricing errors
- Streamlined office operations

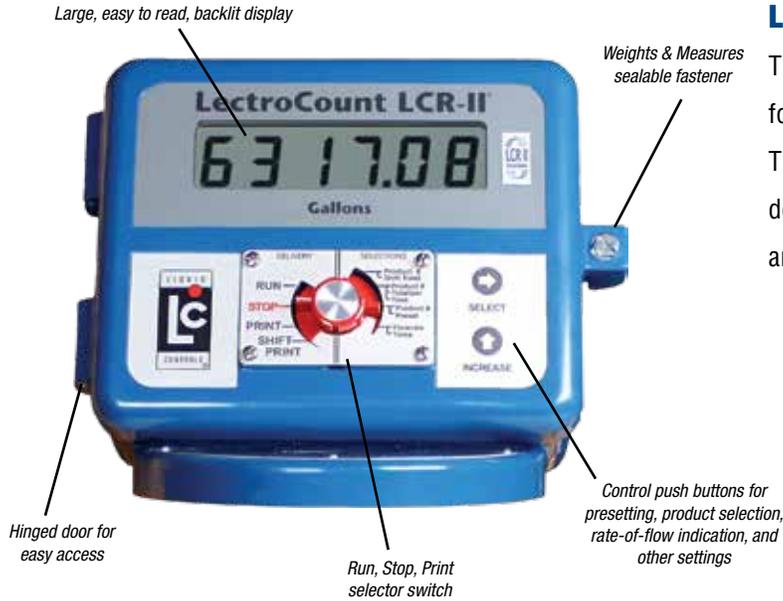
#### AUTOMATIC DATA COLLECTION

#### IMPROVED SECURITY AND AUDIT TRAILS



# LectroCount™ Electronic Registers

LectroCount electronic registers contain highly engineered hardware and software for compatibility with the full range of delivery systems from the simple to the sophisticated... and they are backed by the Liquid Controls commitment to stand by the product for the many years it will be in service.



## LectroCount LCR-II™

The LectroCount LCR-II is the electronic register of choice for those who have experienced its performance in the field. The LCR-II earned its sterling reputation because of its simple design and sturdy construction, which provide easy operation and longevity in the most brutal environments.

- Improved efficiency relative to mechanical systems
- Weights & Measures approvals
- Ruggedness and reliability
- Simplicity of operation
- Compatibility with industry-standard Epson printers



## LectroCount LCR 600™

The LectroCount LCR 600 marks the next evolution of Liquid Controls electronic registers, providing a large display, user-friendly interface, and increased functionality. The LCR 600 is equipped with a large platform to run industry specific custody transfer applications, such as Point-of-Sale (POS) and FlightConnect.

# Data Management Systems

## DMS™

The DMS is an in-cab data management system designed for fuel delivery vehicles. After each delivery, the DMS gathers the metrological data from the electronic register, combines it with customer and transaction data, and transfers a complete record of delivery activity to your back office. There are three types of application software—each one tailored to manage the intricacies of a specific application: DMS Delivery for customer-direct fuel delivery, EZConnect for fleet fueling, and FlightConnect for aviation fueling.



- Simultaneous delivery of up to three meter systems
- Two auxiliary ports for custom devices, such as card readers or bar code scanners
- Three user programmable inputs and outputs
- Rugged construction provides longevity and reliable operation in extreme environments
- DMS and office application software available for customer delivery, fleet, and aviation fueling
- Data transfer via RF, cellular, or USB

## DMS application software

ACCOUNT INFORMATION	↑(2/3)	
R5075	2	
Albert Constantine		
Presets	250.00	
Miscellaneous Fees	\$25.00	
Discounts	10 day	
►Price and Tax		
Util	Back	Fwd

FILL VEHICLES	↑16:01:12
Button ID:	640000F4FCD0651
LCR #1	Product: Gasoline
Gross Qty:	55.7 Gallons
Account #:	45
Vehicle #:	178
Quantity:	55.7 Gallons

## DMS Delivery™

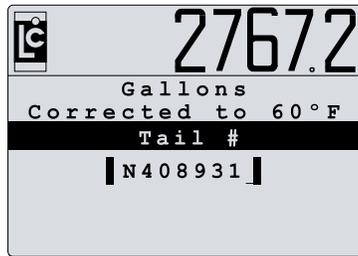
DMS Delivery is a customer delivery application software program designed for delivering fuel directly to small or large customer bases. DMS Delivery prints complete priced and taxed tickets for customers, saves the delivery information, and transfers all of the information to the back office. Prices, taxes, discounts, and miscellaneous charges can all be customized to meet the specifics of your operations.

## EZConnect™

EZConnect is an application software program designed to simplify fleet fuel delivery, streamline accounting procedures, and provide valuable data that can significantly benefit fleet management. EZConnect identifies vehicles and equipment at a fueling site, verifies the customer and the type of fuel required, records the delivery data, and transfers the delivery data to office computers.

# Data Management Systems

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LectroCount LCR 600 FlightConnect Screen



M80 with LCR 600 FlightConnect

## FlightConnect™

FlightConnect is an automated, easy-to-use data capture and management system that streamlines into-plane fueling operations. FlightConnect collects the details of each fueling and delivers them, wirelessly, to your back office.

FlightConnect eliminates the need for hand-written tickets and the majority of manual data entry required in the office. Fuelers simply enter the plane details into their LCR 600

register, and when the fueling is complete, FlightConnect prints a ticket of the fueling details and wirelessly sends all of the data to your office computer.

FlightConnect is ideal for commercial or fixed-based operations. It is available on the LectroCount LCR 600 and the DMS and operates seamlessly in a mixed environment of refuellers, hydrant trucks and hydrant carts.

## Accessories

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### XL LED Remote Display

The LectroCount XL LED Remote Display displays metered product volumes in a large format so they can be read from long distances. Volume readouts appear as six 2¼" high digits, each consisting of 18 red LED lights, and are discernible from up to 250 feet away.



### Electronic temperature volume compensation (ETVC)

ETVC electronically records and computes changes in product temperature. This virtually eliminates the effect of product temperature change on the volume delivered. The platinum RTD probe is accurate to 0.45 °F (0.25 °C) over the temperature range.



### Presetting valves

Preset valves are mounted on the outlet of the meter and utilize two solenoids for delivery control and two stage presetting.



### **Liquid Controls - A Tradition of Excellence**

Over fifty years ago, Liquid Controls set a new standard of excellence in engineering by building the finest flow meter products possible. The very first Liquid Controls meters metered aviation fuel for the United States Air Force, and it wasn't long until the Liquid Controls name became synonymous with dependability and accuracy. With years of constant innovation in flow meter technology, a flourishing worldwide distribution network and an ever-expanding industry base, Liquid Controls remains a premier name for controlling and measuring high-value liquids and gases.

The professionals at the Liquid Controls are driven to bring you products that perform efficiently and accurately with minimum maintenance for years to come. Delivering everything you'd expect from the very best—that's our goal.

### **Your Customers—Our Customers**

Liquid Controls is part of IDEX Energy & Fuels. The IDEX Corporation is a diversified, engineered products company. IDEX leverages the resources of high quality, similar-profile businesses to innovate solutions that bring real and lasting value to you, our customer. At Liquid Controls and IDEX, the voice of our customers is our driving force. With your guidance, we will ensure that the quality of our existing products endures and we will continue to develop new products and services that best meet your customers' needs.

## **Liquid Controls LLC**

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