



LIQUID CONTROLS

Simply the Best™



**Meters and Accessories for
Refined Fuel Applications**





The standard in refined fuel measurement

Applications

Tank wagons and transports

Aviation refuelers

Bulk plants

Terminals

High-speed diesel dispensing

Industries served

Residential and commercial heating oil delivery

Gasoline and diesel fuel delivery

Others

- Asphalt
- Lube oils
- Aviation fueling
- Marine fueling
- Railroad fueling
- Hydrocarbon processing
- Petroleum production

Liquid Controls produces the most reliable and accurate refined fuel metering systems available, worldwide. For truck-mounted or fixed-site custody transfer applications requiring **Weights and Measures-approved** accuracy, LC products deliver consistent, error-free, dependable service. And, because of its ease of installation, minimal maintenance requirements and few replacement parts, you'll appreciate the low cost of owning and operating LC equipment.

Features and benefits

LC meters are exclusively engineered with **no metal-to-metal contact** inside the measuring chamber, ensuring minimal wear and years of reliable, trouble-free service. This time-proven design also provides consistently accurate flow measurement regardless of variations in temperature, volume, viscosity or pressure.

LC's unique meter construction results in **low pressure drop**, even at high flow rates. That means efficient operation and minimal added demand on system pumps. And Liquid Controls' unrivaled performance extends beyond the meter to precision-engineered system components, including valves, air eliminators, presets, strainers and temperature compensators to provide consistently accurate results regardless of system demands, fluid

characteristics or environmental factors. Our state-of-the-art **LectroCount™ electronic registers** provide advanced functionality to improve efficiency and deliver added bottom-line results.

At our **ISO-certified** plant in Lake Bluff, Illinois, LC metering systems are made to last. Many of our first meters manufactured decades ago are still in operation today. Backed by a network of qualified distributors and OEMs, our products are known worldwide for quality, accuracy and advanced design. That's why Liquid Controls continues to lead the refined fuel industry in metering solutions, and why you'll want your refined fuel operations to include Liquid Controls products.



Premier products, premier performance

Capacity (Max. flow rate)

60 GPM to 1,000 GPM
227 to 3,785 L/min

Working pressure rating

150 PSI and 275 PSI
10.5 BAR and 19 BAR

Connections

1½", 2", 3", 4", 6" NPT, BSPT or slip weld companion flanges. Optional RF or FF ANSI flanges.

New Accessories

Optical Air Eliminator - optical sensor monitors liquid level in air eliminator. An electronic solenoid controls the vent port.

E-7 Valve - two-stage valve for preset deliveries. Same footprint as the K-7 valve.



Optical Air Eliminator



E-7 Two-Stage Valve

Capacity (Max. flow rate)

100 GPM to 1,000 GPM
380 to 3,785 L/min

Working pressure rating

285 to 1,440 PSI
10.5 to 100 BAR

Connections

2", 3", 4" and 6" ANSI flanges



Features

- Adapts to virtually all flow meters
- Compatible with LC Lap Pad or handheld computers for data entry
- Large-character display
- Weights and Measures approved



Features

- Adaptable to most PD meters
- Numerical counter provides 5-digit resettable totalizers
- Mechanical preset available



M™ Series meters for trucks and dispensers

A standard in Class 1 (refined fuels) meters. No metal-to-metal contact within the measuring chamber provides low wear and long service life. Accessories include air eliminator and strainer, valve and choice of mechanical or electronic registration with optional temperature/volume compensation.

Common truck meter model

Application	Description	Model
Refined fuels	2" 100-GPM aluminum-body meter with high-capacity air eliminator/strainer, inlet backcheck valve, preset valve, and choice of electronic or mechanical register, and printer	M-7-K-1

MS™ Series meters for terminals and bulk plants

Housed in a spherical steel pressure shell available in ratings to 1,440 PSI working pressure, the MS Series features the same high-quality meter elements that are the hallmark of Liquid Controls' outstanding metering technology. Completely integrated meter accessories are available, including high capacity bulk air eliminators, strainers and valves. Multiple inlet/outlet and flange configurations provide unmatched mounting flexibility.

LectroCount™ electronic registration systems

The ideal choice for both mobile and fixed-site flow measurement applications. Superior to mechanical registration, LectroCount provides near-perfect metering accuracy with multi-point calibration and optional electronic temperature/volume compensation. Simple to operate electronics deliver advanced features including on-site ticket generation, improved security and audit trail and capability for real-time RF communications with your home office.

Mechanical registration systems

Ideal for systems without electrical power. Preset counters are available for either single-stage or two-stage valve closure. Printers generate standard zero-start or accumulative style tickets.



A tradition of excellence that benefits you

Almost fifty years ago, Liquid Controls set a new standard of excellence in engineering and building the finest flow meter products possible, starting with metering aviation fuel for the United States Air Force.

Since that time, the industry base we serve has grown, broadened. Our product line has expanded to include a wide variety of flow meters, accessories and related items distributed worldwide. But our commitment to excellence will never change. The professionals at 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.

A good fit

In 2001, Liquid Controls joined the IDEX team of companies. IDEX is a leader in the manufacture of a broad range of pump products, dispensing equipment and other engineered technologies. Maintaining a theme of leadership, IDEX delivers Innovation, Diversity and **EX**cellence to thousands of valued customers around the world.



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