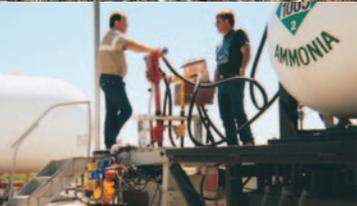


LIQUID CONTROLS GROUP



**Meters and Accessories for
Agricultural Applications**



The standard in liquid measurement for agribusiness

Applications

Anhydrous ammonia (NH₃)

Crop oils

Liquid fertilizers

Liquid feed

Herbicides, fungicides, insecticides and pesticides

Water

Agribusinesses served

Equipment distributors

Co-ops

OEMs

Growers

Material handlers and applicators

Liquid Controls' provides the agriculture industry with metering systems that are among the most reliable and accurate in the world. Install Liquid Controls' metering systems on your delivery vehicles or in your bulk storage facility, and count on years of dependable, accurate performance.

PD meters

Liquid Controls' PD meters are exclusively engineered with **no metal-to-metal contact** inside the measuring chamber. This minimizes wear, helps eliminate seasonal replacement of parts and ensures long, reliable service life with lower maintenance and operating costs. Our time-proven design provides consistent, accurate flow measurement for many liquids ranging from thick liquid feeds to low-viscosity anhydrous ammonia (NH₃).

Mag meters

Liquid Controls also offers LCMag™ meters, NIST-approved electromagnetic flow meters. An obstructionless design, LCMag™ meters have **no moving parts** and virtually **no pressure drop** through the meter. Commonly used configurations include flanged, wafer and threaded connections. LCMag meters are ideal for metering liquid fertilizer and water.

Mass meters and turbine meters

LC offers a complete line of mass and turbine meters for your unique operational or measurement requirements. Selected models of LCMass™ meters are NIST-approved for liquids with specific gravities from 0.70 to 1.00. Liquid Controls' mass and turbine meters are available in many exotic alloys that meet a wide range of specifications.

At our **ISO-certified** facility in Lake Bluff, Illinois, LC metering systems are made to last. Backed by a network of qualified distributors and OEMs, our products are known worldwide for quality, accuracy and their advanced design. That's why Liquid Controls continues to lead the agricultural industry in metering solutions, and that's why you'll want to include Liquid Controls products in your agribusiness.

Premier products, premier performance

Capacity (Max. flow rate)

5 GPM to 600 GPM
19 to 2,270 L/min

Working pressure rating

150 and 350 PSI
10 and 24 BAR

Connections

1½", 2", 3" and 4" NPT, BSPT or slip weld companion flanges



Features

- Adapts to virtually all flow meters
- Weights and Measures approved systems
- Optional large character remote display



Capacity (Max. flow rate)

13 GPM to 1,200 GPM
49 to 4,542 L/min

Working pressure rating

230 PSI
16 BAR

Connections

1¼" through 4" flanged, wafer, and threaded



Features

- LCMass meters provide readouts of mass, density and temperature
- LC Turbine meters are ideal for clear chemical solutions



M™ and MA™ Series meters

Unique construction with no metal-to-metal contact within the measuring chamber provides highly accurate performance and long service life across the wide range of liquids used in the agribusiness industry. LC offers many accessories such as strainers, air and vapor eliminators, valves, mechanical registers and electronic registers.

Application	Meter construction class
Anhydrous ammonia (NH ₃)	Class 12 (Aluminum)
Crop oils	Class 1 (Aluminum)
Liquid fertilizers	Class 15 (Aluminum), Class 27 or 47 (Cast iron)
Liquid feeds	Class 37 (Cast iron)
Herbicides	Class 30 (Aluminum)
Phosphoric acid	Class 8 (Stainless steel)

Registration systems

LC meters are available with a selection of LectroCount™ electronic registration systems or with traditional mechanical registers. Both systems can be provided with printers to provide on-site printed delivery tickets.

Electromagnetic flow meters

A true obstructionless, no-moving-parts flow meter LCMag™ meters offer absolute minimum pressure loss and full clean-in-place capability. They are low maintenance and have a long service life. Both direct pulse and amperage outputs are available. A RS-232 serial output is available to operate an electronic printer. Liners are available in PTFE, polypropylene and ebonite. Environmental rating is IP67. Body material is epoxy painted carbon steel.

Mass flow and turbine meters

LCMass meters and LC Turbine meters are available in a wide range exotic alloys suitable for many agribusiness applications. Selected models of LCMass meters are NIST-approved for liquids with specific gravities of 0.70 to 1.00.



A tradition of excellence that benefits you

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.

In 2001, Liquid Controls joined the IDEX team of companies and became part of the Liquid Controls Group. The Liquid Controls Group is a collection of well respected companies brought together to assure custody control and precision management of high-value fluids and gases. 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 **EXcellence** to thousands of valued customers around the world.

Our commitment to excellence will never change. The professionals at the Liquid Controls Group 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.

LIQUID CONTROLS GROUP

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