LIQUID CONTROLS

Flowmeter Systems for Aviation Applications

Applications

- Aviation refuelers
- Hydrant carts
- Truck loading
- Metering into storage
- Fixed-site fueling
- Ground support fueling

Industries

- Commercial aviation
- Corporate and private aviation
- Military

Premier Aviation Flowmeter Systems

Liquid Controls (LC) sold their first flowmeter in 1954, fulfilling an order for aviation flowmeters from the U.S. Air Force. Since then, LC has built a reputation in the aviation industry for high quality, reliable flowmeter systems and practical innovations that enhance metering performance, increase safety, and streamline fueling data management.

Liquid Controls Positive Displacement Flowmeters

Liquid Controls (LC) flowmeters sustain their accuracy for a remarkably long time in the field with minimal maintenance. LC's tri-rotor design combined with LC's precision manufacturing produce flowmeters with an unsurpassed low cost of ownership.

M-80 with LCR 600 FlightConnect

Lectrocount™ Electronic Registers

LectroCount electronic registers contain highly-engineered hardware and software that is compatible with a full range of delivery systems, from the simple to the sophisticated. LectroCount registers are Weights & Measures approved in Canada and the United States, and they have IECEx approval for use in parts of Latin America and Asia.

LectroCount LCR 600

LectroCount LCR-II

TE550

The TE550 is a microprocessor-based electronic register that simultaneously gathers metrological data from the flowmeter system during fuelings and runs the FlightConnect fueling software. The TE550 is approved for ATEX and MID applications.

TE550

DMS™

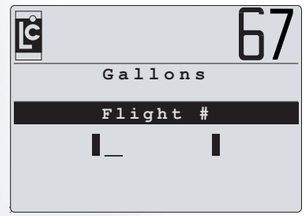
The DMS is an in-cab computer that captures metrological data—from LectroCount-II or TE550 electronic registers—and combines it with application data entered into the FlightConnect and EZConnect software interfaces. The DMS is equipped to control up to three electronic meter registers simultaneously.

DMS

Aviation Fueling and Delivery Systems

FlightConnect™

FlightConnect is a wireless, easy-to-use data capture and management system for into-plane fueling. FlightConnect collects the details of each fueling, delivers them, wirelessly, to your office computer, and imports them into your accounting and fuel management software. FlightConnect can shorten fueling times and drastically reduce the amount of time-consuming manual data entry that takes place on the ramp and in the office. FlightConnect is ideal for commercial or fixed-based operations. It is available for the LectroCount LCR 600, the Multiload III, and the DMS in-cab system.



LectroCount LCR 600 FlightConnect Screen

TE550 FlightConnect

Features & Benefits

- Shorten fueling times
- Runs on a number of electronic devices with regulatory approvals that cover most of the world
- Reduce processing time and data entry errors
- Avoid inventory reconciliation errors and rework
- No "per transaction" fees
- No 3rd party handheld devices required
- Differential pressure (ΔP) monitoring and shutdown *available with additional equipment*
- Direct density measurement *available with additional equipment*

EZConnect™

EZConnect is a wireless, easy-to-use data capture and management system for the DMS. EZConnect simplifies the fueling of ground support equipment. A specialized handheld device identifies vehicles and equipment at a fueling site and verifies the customer and the type of fuel required. After fuelings, EZConnect records the fueling data and transfers the fueling data to your back office.

Features & Benefits

- Prevent misfuelings
- Deliver to multiple customers without stopping or changing accounts
- Prevent fuel theft
- Print on-site delivery summaries
- Shorten fueling times
- Reduce billing errors
- Simplify accounting
- Reduce time to post and shorten cash cycle
- Improve preventative maintenance
- Audit fleet performance according to fuel burn and fuel consumption

DMS EZConnect Screen

Aviation Flowmeter System Accessories

Slipstream Density Measurement System

The Slipstream Density Measurement System (SDMS) is an add-on density measurement system for the Liquid Controls M-80 flowmeter. The SDMS takes manual calculation out of the fueling process, reducing the chance for errors and streamlining the fueling process. Fuelers can provide an accurate, directly-measured average density and total weight of an uplift directly to the airline operator.

LC Densitometer

XL LED Remote Display

Perfect for aviation refuelers, load racks, and other applications in vast spaces where long-distance viewing is necessary, the six 2¼" high digits, each consisting of 18 red LED lights, are discernible from up to 250 feet away.

XL LED Remote Display

Differential Pressure (∆P) Transducer

The ΔP transducer is a safety shutdown device and a maintenance tool for aviation refueling systems. The ΔP transducer, in conjunction with a LectroCount register and a solenoid operated valve, can stop a fueling when the differential pressure (ΔP = pressure drop) across a full flow fuel monitor or filter separator meets a preprogrammed differential pressure shutdown value, eliminating the risk of tainted fuel deliveries and meter damage. Maximum differential pressure and the flow rate at which it occurred during the fueling can be printed on the fueling ticket.

Differential Pressure (∆P) Transducer

Printers

Epson slip printers and Epson roll printers are industry standards for aviation flowmeter systems. Epson printers provide multiple copies of fueling tickets, diagnostic tickets, calibration reports, and logoff (shift) tickets.

Epson Roll Printer

Epson Slip Printer

IDEX ENERGY & FUELS

www.lcmeter.com

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