

# LIQUID CONTROLS



FlightConnect™



## Automated Aviation Fueling

FlightConnect is an automated, easy-to-use data capture and data management system that streamlines and accelerates into-plane fueling operations, on the tarmac and in the office. FlightConnect collects the details of each fueling—at the gate or at the aircraft—and delivers them, wirelessly, to the doorstep of your back office.

### Available Data Fields

- Tail number
- Fueling date and time
- Fuel type
- Units delivered
- Airport Codes
- Fueler ID
- Aircraft type
- Gate number
- Origin
- Destination
- Additives
- Requested volume
- User-defined fields
- Maximum  $\Delta P$  reading

### Boost Productivity on the Tarmac and in the Office

FlightConnect can shorten fueling times and drastically reduce the amount of time-consuming manual data entry on the tarmac and in the office. With FlightConnect, fuelers no longer need to handwrite tickets and then carry the tickets all of the way back to the office. Fuelers simply enter the flight details into a LectroCount LCR 600 electronic register or a DMS in-cab system. When the fueling is complete, FlightConnect prints a ticket of the fueling details and wirelessly sends all of the data to your office. No data entry is required. FlightConnect organizes the data fields and formats the data so that your back office software can easily import it into your fuel management or POS system. Software for your office PC where you can create and manage every aspect of the FlightConnect database is also included.

Automating your into-plane fueling with FlightConnect also saves time by eliminating many of the errors caused by lost or unreadable tickets and inaccurate data entries. Fewer errors equals fewer inventory reconciliations. And when an inventory reconciliation is necessary, FlightConnect makes it easy to track down any oversights.



*M-80 with LCR 600 FlightConnect*

### FlightConnect Benefits

- Shorten fueling times
- Increase operational efficiency
- Reduce processing time and data entry errors
- Avoid inventory reconciliation errors and rework
- Reduce transaction cycle time
- No “per transaction” fees
- No 3rd party handheld devices required
- Differential pressure ( $\Delta P$ ) monitoring and shutdown

### Perfect for All Into-Plane Fueling

FlightConnect installs directly onto any LectroCount LCR 600 or DMS on any refueller, hydrant truck, or hydrant cart, and it operates seamlessly in a mixed environment. FlightConnect is ideal for either commercial or fixed-based operators.

# FlightConnect Components

## FlightConnect Software

FlightConnect includes fueling software, for the equipment on the tarmac fueling aircraft, and office software, for office computers. FlightConnect fueling software provides an intuitive interface for fuelers and all of the tools to setup wireless data transfer. Fueling software is available on the LectroCount LCR 600 and the DMS and operates in a mixed environment of refuelers, hydrant trucks, and hydrant carts. FlightConnect office software provides an easy-to-use interface where the FlightConnect database can be created and managed. The office software also provides all the tools required to manage wireless data transfer and user security.

## LectroCount LCR 600

The LectroCount LCR 600 is a microprocessor-based electronic register. The LCR 600 simultaneously gathers metrological data from the meter system during fuelings and runs the FlightConnect fueling software. The LCR 600 can be Weights & Measures approved and mounted directly onto a meter system.

## DMS

The DMS is an in-cab computer with a heavy-duty lap pad interface engineered for the harsh environments of the tarmac. The DMS runs the FlightConnect fueling software and captures metrological data from a LectroCount electronic register.

## Differential Pressure (ΔP) 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 ( $\Delta P$  = 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 Transducer

## XL LED Remote Display

Perfect for aviation refuelers, load racks, and other applications in vast spaces where long-distance viewing is necessary, the six 2 1/4" high digits, each consisting of 18 red LED lights, are discernible from up to 250 feet away.



XL LED Remote Display

## Printers

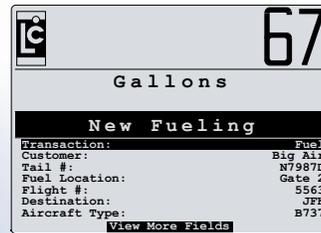
Epson slip printers and Epson roll printers are industry standards for aviation flowmeter systems. Epson printers provide multiple copies of fueling tickets, diagnostic tickets, calibration reports, and logoff (shift) tickets.



Epson Roll Printer



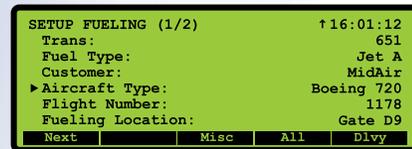
Epson Slip Printer



LCR 600 FlightConnect



LectroCount LCR 600



DMS FlightConnect



DMS and LectroCount LCR-II

<b>Custom Header</b>		AIR LC O'HARE INTERNATIONAL AIRPORT 105 ALBRECHT DR. LAKE BLUFF, IL 60044-2242 847.295.1050	
AIRCRAFT SERVICE RECORD			
TICKET NUMBER		0827361380	<b>Ticket Sequence Number</b>
Air Sleigh			
FLIGHT NUMBER		164	
AIRCRAFT TYPE		B787	
TAIL NUMBER		N408P	
ORIGIN		ORD	
DESTINATION		LAX	
TRANSACTION		Fuel	
FUEL TYPE		Jet A	
TRUCK NUMBER		1	
FUELING LOCATION		Gate C2	
FUELER		Degner	
-----			
METER NUMBER	A	Aviation 81	
SALE NUMBER		259	<b>Sales Sequence Number</b>
TIME START	08/27/15	12:25:51	
TIME END	08/27/15	12:42:16	<b>Start &amp; Finish Time Stamp</b>
START COUNT		0. Gallons	
END GROSS COUNT		1147 Gallons	
GROSS DELIVERY		1147 Gallons	
START TOTALIZER		26061 Gallons	
END TOTALIZER		27108 Gallons	
DP 7.2 PSI @		658 GPM	<b>Differential Pressure Reading</b>
-----			
TOTAL DELIVERED		1147 Gallons	
GROSS INVENTORY		953 Gallons	
RECEIVED BY _____			

Sample FlightConnect Fueling Ticket



## The Liquid Controls Group

The Liquid Controls Group provides custody transfer solutions for the control and management of high-value fluids and gases. In 2001, IDEX united Corken, Liquid Controls and Sampi to form the Liquid Controls Group. Together, they used their combined resources to design valuable new products and offer cost-effective pump and meter solutions. The three flagship business units laid the foundation for LCG's successful program of collaboration and innovation. With the additions of Liquid Controls Sponsler, Toptech Systems and Faure Herman, a total of six industry leading brands, LCG quickly became a dependable, single source provider, large enough to supply comprehensive solutions yet flexible enough to customize solutions for unique needs. Today, the Liquid Controls Group has a strong global presence with seven business units in five countries and over 500 distributors on six continents.



## Your Customers—Our Customers

The Liquid Controls Group (LCG) is part of the IDEX Corporation, 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 LCG and IDEX, the voice of our customers is our driving force. With your guidance, we can preserve the quality of our existing products and develop new products and services that best meet your customers' needs.

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