

LCR.iQ™

METER REGISTER AND DATA CONTROLLER



CENTRILOGiQ®

The center of fueling logic

by  LIQUID CONTROLS®

CENTRILOGiQ®

The Center of Fueling Logic

Inspired through LC's PartnerConnect initiative, the new Liquid Controls **CENTRILOGiQ** platform is the product of years of direct design collaboration with LC customers and partners to address the industry's future needs.

Q: What is the CENTRILOGiQ platform?

A: CENTRILOGiQ is a fueling data and controls platform designed to connect critical sensing, control, and data management technologies to fueling operations and the outside world.

Q: What makes up the CENTRILOGiQ platform?

A: The platform consists of the LCR.iQ electronic register and they system of various sensing and control devices that connect through it.

Q: What devices are compatible with it?

A: CENTRILOGiQ is manufacturer agnostic. It is intentionally designed for compatibility with all major OEMs, sensing devices, and 3rd party data providers.

Q: Can I customize it for my operations?

A: Yes! It provides users the luxury of configuring the fueling process, screen layout, and data outputs to allow end users to standardize fueling procedures across their fleet.



Primary Markets

While the **CENTRILOGiQ** platform was intentionally designed for demanding truck based fueling markets, it also easily supports the variety of skid based and fixed fueling applications and markets.



Refined fuels and LPG Fueling

Extreme reliability and game-changing simplicity of use for the full range of truck based fuel delivery applications.



Aviation Fueling

The aviation fueling profile provides both configurability and scalability for the ever-changing regulatory and safety requirements.

Designed by those who use it.

The LCR.iQ was built from the ground up from over 2 years of customer collaboration. Easy to operate, easy to see, and easy to navigate were the primary ground rules of the design. Functionality and connectivity that is scalable to adapt to future technology is the core foundation of the LCR.iQ.

LCR.iQ Features



LCR.iQ Technical Details

The LCR.iQ was built on a foundation of hardware and software designed to support decades of future innovation, regulatory requirements, and wireless connected technologies. The below list of features is the just the starting point for LCR.iQ. Significant additional capabilities currently in development are to be released ongoing in 2018.

Features / Benefits	LCR.iQ™
General	
Near instant startup, Boot time:	5 seconds
No "Power on Timing Relay", Boot time:	5 seconds
Temperature compensation	Yes
Multi-point calibration (up to 16 points)	Yes
Direct meter mount configuration	Yes
Remote panel mount configuration	Yes
Removable USB and SD data storage	Yes
3rd party data providers open source access	Yes
Easy upgrade from LCR-II, LCR 600, and conventional registers	Yes
Internal telescoping Hinges (eliminates seizing external door Hinges)	Yes
User Input and Display Features	
Large 7", 810 x 480 high resolution, full color video quality display	Yes
Customizable SMART keys for simplified operator controls	Yes
Full alpha numeric keypad with easy arrow selection keys	Yes
Large Marine Grade, Petroleum Resisitent LED backlit buttons	Yes
Full screen mode for largest readable digits in the industry (viewable from greater than 100')	Yes
Day / Night mode for ease of operator viewing	Yes
Screen brightness adjustment	Yes
One-touch, instant onboard diagnostics and help screens	Yes
Customizable printed tickets	Yes
User configurable on-screen display data	Yes
Configurable delivery setup screen	Yes
Print historical tickets, 10,000+ transaction history logs	Yes
Unlimited Weights & Measures historical audit log.	Yes
Large memory storage for future video and document storage and viewing (manuals, videos, etc.)	Yes
On-screen virtual keyboard for ease of data entry	Yes
Customizable fueling screen profile by market type	Yes
Connectivity	
RS-232 and RS-485 Communication ports	Yes
Integrated CAN BUS	Yes
4-20 mA connections	Yes
Ethernet connectivity	Yes
Embedded Bluetooth and Wifi for multiple wireless device connectivity.	Yes
11 Conduit ports(1/2" NPT)	Yes
Refined Fuels / LPG Specific Capabilities	
Remote control (e-stop) compatible to Base Systems	Yes
3rd party fleet automation connectivity and data management	Yes
Toggle Flow	Yes
Smart Pump compatibility (run-dry prevention) coming 2018	Yes
Aviation Fueling Specific Capabilities	
Differential pressure monitoring / shutdown / reporting per JIG 58	Yes
Manual or Automatic Fuel Density data	Yes
Water in Fuel monitoring / shutdown / reporting	Yes
Tank level monitoring / reporting	Yes
3rd party fleet automation connectivity and controls	Yes
Additive injection contols and reporting	Yes

CENTRILOGiQ[®]

Refined fuels and LPG

The LCR.iQ is designed to simplify all fueling operations through system customization and configurability, intuitive operation, and real-time fueling diagnostics to maximize up-time and daily throughput.



LCR.iQ with LC M7 Meter with strainer and air eliminator



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Aviation

The LCR.iQ is designed to connect all critical measurement and sensing devices in aviation fueling systems and is capable to deliver all measured and reported fueling data to back office systems.



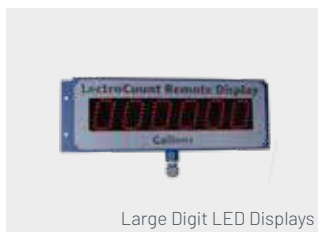
LCR.iQ with LC M80 Meter



LCR.iQ with Avery-Hardoll BM950 Meter



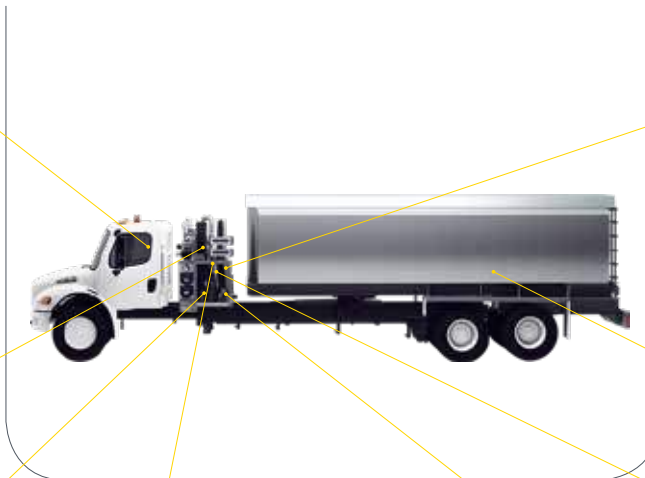
In-Cab Devices



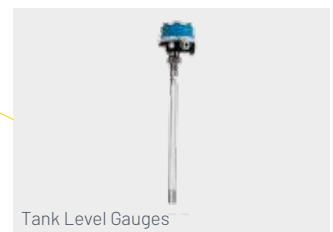
Large Digit LED Displays



Temperature Volume Compensation



Fuel Densitometers



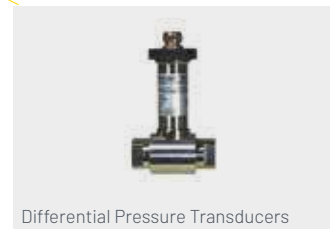
Tank Level Gauges



Water in Fuel Detectors



Pulse Output Devices



Differential Pressure Transducers

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ABOVE: LCR.iQ shown in night-mode.

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