

Specifications Sheet

LectroCount LCR 600



General Information

The Liquid Controls LectroCount LCR 600 is a microprocessor-based electronic meter register. Installed with the proper system accessories, the LectroCount LCR 600 can be used for Weights & Measures approved custody transfer actions in mobile or fixed installations. The LCR 600 can control a meter system as a stand-alone unit, or it can be used as a slave to a host controller (e.g., a process controller or an in-cab data management system).

Inputs

In order to calculate flow measurements from a positive displacement meter, the LCR 600 receives a pulse input from an internally mounted quadrature pulser that is mechanically connected to the flow meter (retrofit kits are available for installation onto other brands of positive displacement meters). This pulse output can also come from a Liquid Controls external POD pulser or another pulse generator. In addition to the pulse input, the LCR 600 is equipped with an input for a temperature probe, so the register can compensate volume measurements according to the temperature of the product.

Outputs

The LCR 600 has 7 outputs: a configurable scaled pulse output, one serial output for communications, one serial output for the printer, two auxiliary outputs, one air and vapor eliminator solenoid valve, and two outputs for valve solenoids. These outputs allow the LCR 600 to communicate with meter system accessories such as: solenoid-controlled valves, optical air and vapor eliminators, remote displays, printers, and many others. The LCR 600 is capable of interfacing in RS232 and RS485 communication protocols.

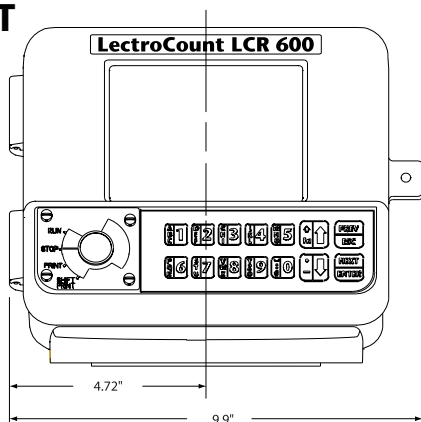
Functionality and Operation

The principle functions of the LCR 600 include calibration (single and multipoint), Weights & Measures custody transfer (product delivery and ticket generation), automated data collection, meter system configuration, and presetting. Enhanced functions of the LCR 600 include multiple production selection, on-screen diagnostics, a selection of delivery screens, security settings, valve control, and electronic temperature volume compensation (ETVC). The LCR 600 is also available with a full-featured point-of-sale (POS) utility. The POS utility gives users the ability to create complex pricing structures—including taxes, discounts, and additional charges—and print the detailed pricing on the delivery ticket. The LCR 600 is a self-contained unit. All setup and configuration of the LCR 600 can be made using the red selector switch and the alphanumeric keypad. No lap pads, laptops, or other data entry devices are required.

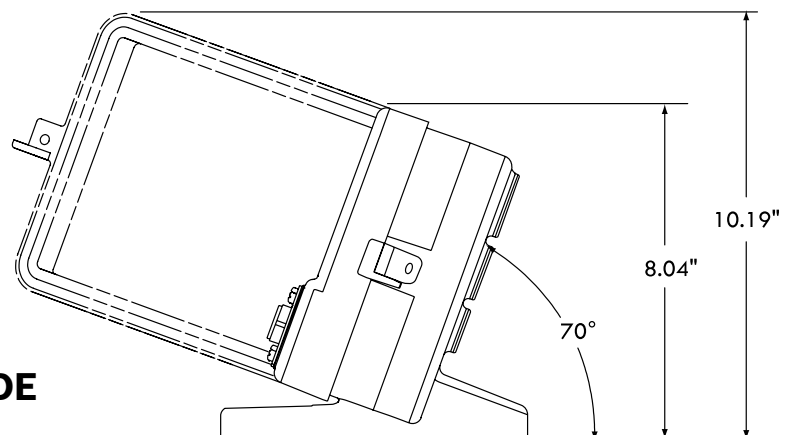


Dimensional Drawings

FRONT



SIDE



Dimensions shown are not for construction use.
Consult factory when certified engineering drawings are required.

Mechanical Specifications

Materials of Construction

- Aluminum Alloy ADC12
- Powder Coat: Corro-Coat PE 74-141 Polyester

Weight

- 8.4lbs (34kg)

Display Elements

- Liquid crystal display
- 320 X 240 pixels

Cable Entry

- 1/2" NPT (5)
- 3/4" NPT (2)

Temperature Rating

- -40° to 158°F (-40° to 70°C)

Electrical Specifications

Input Voltage

- 9 to 28VDC, 4.5A maximum (including solenoid valves and display heater)

Pulse Output

- 5 to 28V peak to peak, 7500Hz maximum

Scale Pulse Output

- 150mA sinking capability

Electrical Protection

- 7.5A Fuse

Input/Output Specifications

Communications

- RS-232: EIA-232E standard
- RS-485: SAE J1708 standard

Auxiliary 1 Output

- 1A sinking capability

Auxiliary 2 Output

- 150mA sinking capability

Solenoid 1 Output

- 10.2 to 27.2VDC
- 1A maximum

Solenoid 2 Output

- 10.2 to 27.2VDC
- 1A maximum

Solenoid 3 Output

- 10.2 to 27.2VDC
- 1A maximum

Optical Sensor

- 10.2 to 27.2VDC
- 0.5 A maximum

RTD Temperature Probe

- 4 wire platinum sensor
- 100Ω resistance at 0° C
- 138.5Ω resistance at 100° C

Printer (Epson Model 295)

- 24VDC
- 0.8A
- Operating Temperature: -22° to 104°F (-30° to 40°C)

Remote Electronic Display

- 1A sinking capability