



LIQUID CONTROLS®

When Accuracy Counts®

EZCommand Setup

&

Programming

Overview

EZCommand is an application that can be used to setup and configure an LCR device such as an LCRII, LCR++ and LCR600. Users will be able to manage all the settings on an LCR600 including Point-of-Sale functions. In addition, users will also be able to save LCR configuration files that can be used to clone other LCRs with similar configurations.

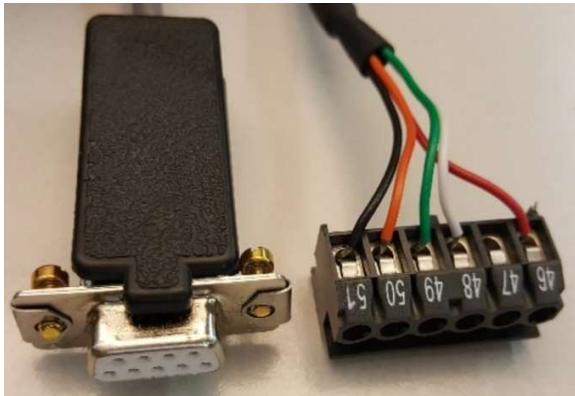
Benefits

- Allows user to easily read and edit the settings of an LCR.
- Allows use of a laptop to perform calibration runs.
- Facilitates LCR configuration save functionality that can be installed on multiple LCRs.
- Update an existing LCR configuration before loading to an LCR.
- Allows fast update of Point-of-Sale settings including prices on a frequent basis.

Course Contents

- Required Material
- EZCommand Installation
- EZCommand Setup
- Connecting/Modifying Configuration
- Clear All Procedure
- LCR600 Drive Format
- LCMeter.com
- Configuring USB Adapter
- LCRII/LCR600 Setup
- Flashing LCRII
- Flashing LCR600
- Flashing LCR600 Display

EZCommand requirements



Flash Cable:LC Part# 81885
(If not using LC data cable)



USB to Serial Adapter
Example: Tripp Lite U209-000-R



www.lcmeter.com
[Resources/Liquid Controls Software](#)

EZCommand requirements Conti...

Optional : Connecting/Flashing w/o Flash Cable



DB9 Serial Cable

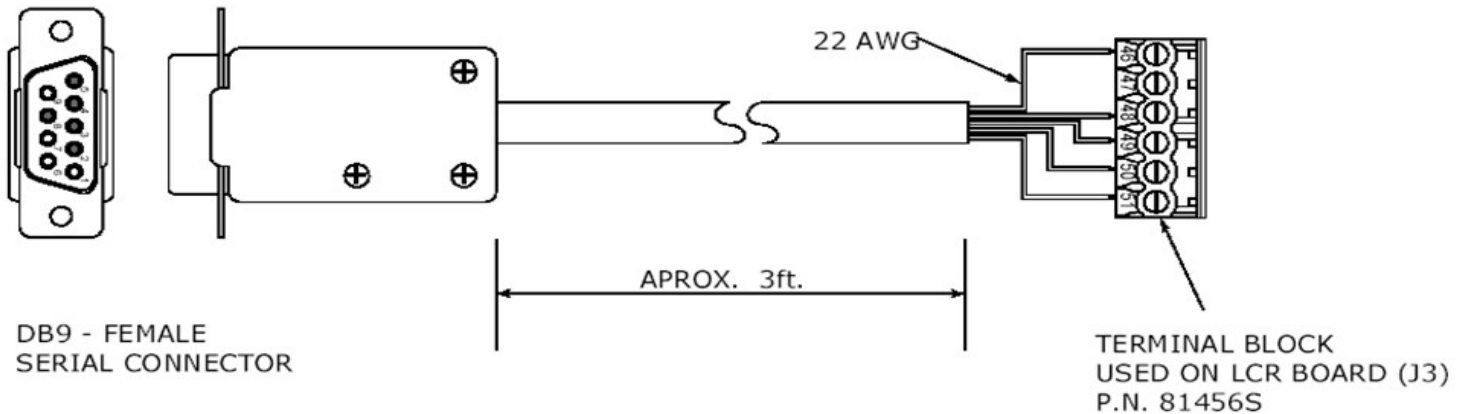


Lap-Pad Adapter

LC Part#81514

EZCommand requirements Conti...

Part# 81885Flash Cable Diagram

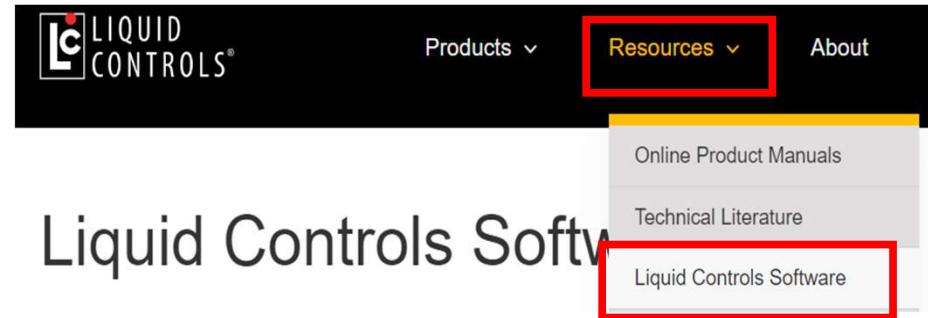


CABLE WIRING		
DB9 CONNECTOR	FUNCTION	TERMINAL BLOCK
2	RECEIVE DATA	48
3	TRANSMIT DATA	49
4	DATA TERM READY	50
5	SIGNAL GND	51
8	12VDC	46

How to access EZCommand Software / LCRII & LCR600 Firmware

www.lcmeter.com

[Resources/Liquid Controls Software/EZCommand Software](#)



EZ Command

Here you can download the EZ Command software used to setup and configure LCR-II and LCR 600 registers. If at any time you have any issues upgrading, please [contact our technical support team](#).

RESOURCES

-  [EZCommand Setup and programming](#)
-  [EZCommand Software](#)

How to access EZCommand Software / LCRII & LCR600 Firmware Conti...



LCR 600 Firmware

SR600/SR601 (Current Version 2.37)

- English LCR600 Firmware- Aviation
- English LCR600 Firmware- Short Ticket
- English LCR600 Firmware- Standard Long Ticket
- Brazilian-Portuguese LCR600 Firmware
- French-Canadian LCR600 Firmware
- Spanish LCR600 Firmware
- LCR600 Display Firmware



LCR-II 840405 & 840406 Firmware

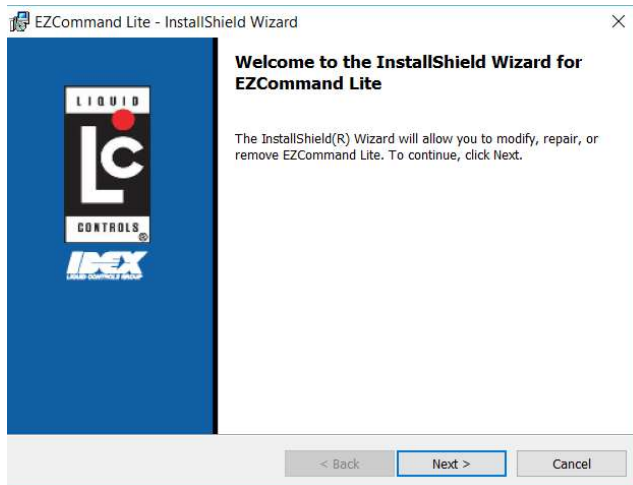
SR260 (Current version 2.32)

- Language Firmware
- Main Firmware
- Ticket Firmware

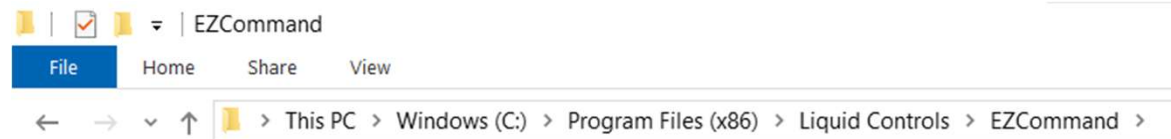
EZCommand Installation

Run EZCommand setup
under Downloads Folder

This PC > Downloads > EZCommand-Software > EZCommand Software				
Name	Type	Compressed size	Passwo	
setup	Application	11,955 KB	No	



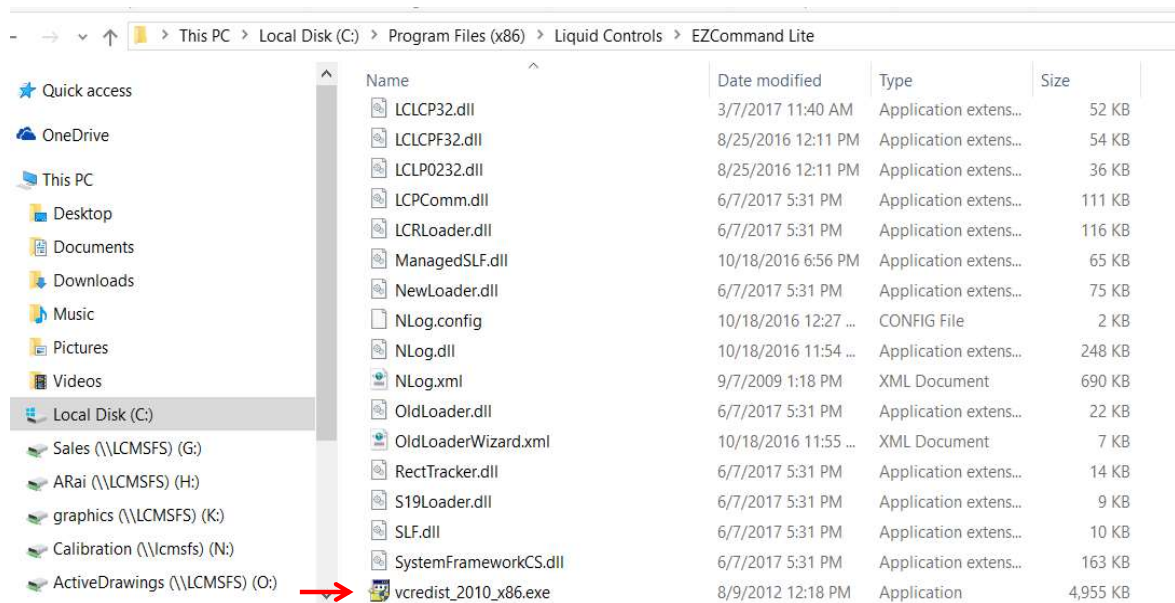
“EZCommand program location once installed”



EZCommand Installation Conti...

Follow the link to run  **vcredist_2010_x86.exe** Application

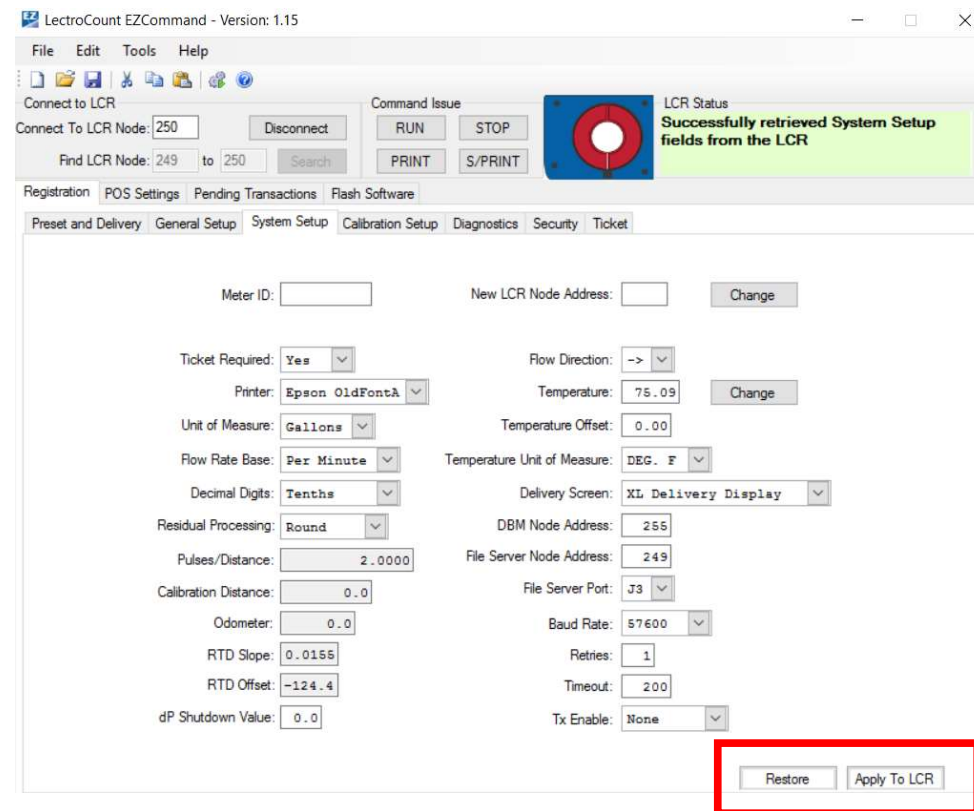
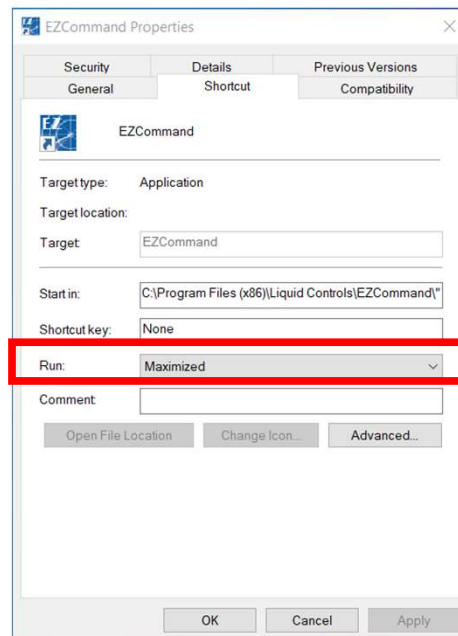
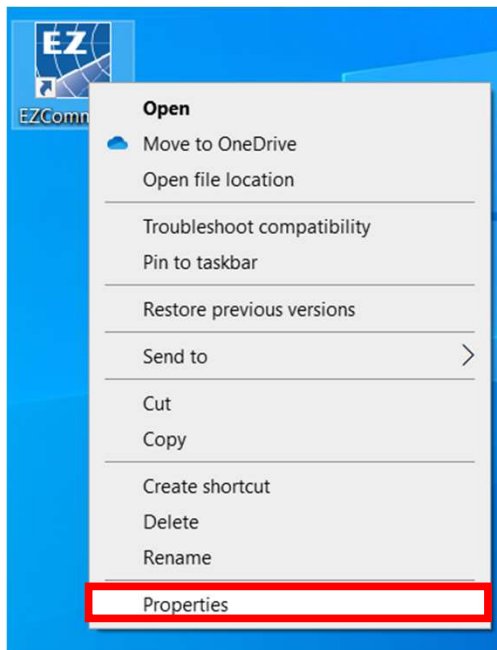
[C:\Program Files \(x86\)\Liquid Controls\EZCommand](C:\Program Files (x86)\Liquid Controls\EZCommand)



EZCommand Installation Conti...

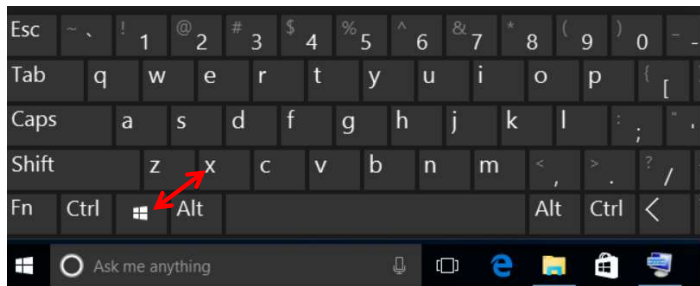
Modifying EZCommand Resolution if missing "Apply to LCR"

- Right click on EZCommand icon on desktop to change the window setting to **"Maximized"** under **"Properties"**



Configuring a USB to Serial Adapter

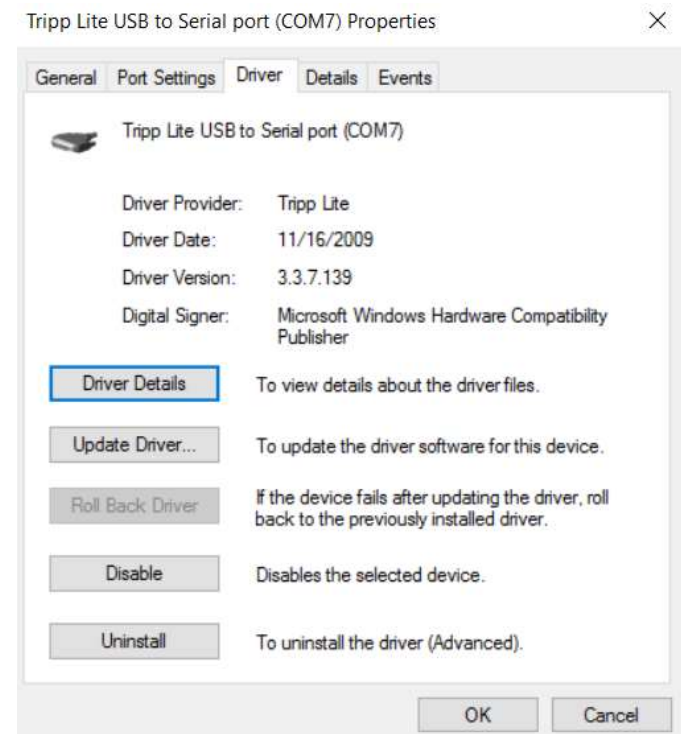
1. Make sure the USB to Serial converter is connected to one of the USB ports on your computer.
2. Click on the Windows key and the X key on your keyboard simultaneously to open the Quick Links menu.
3. Click on "Device Manager".
4. Double-click on "Ports (COM & LPT)".



Configuring a USB to Serial Adapter

Note: Upon connecting the new USB to Serial Adapter, you may have to manually install the supporting driver.

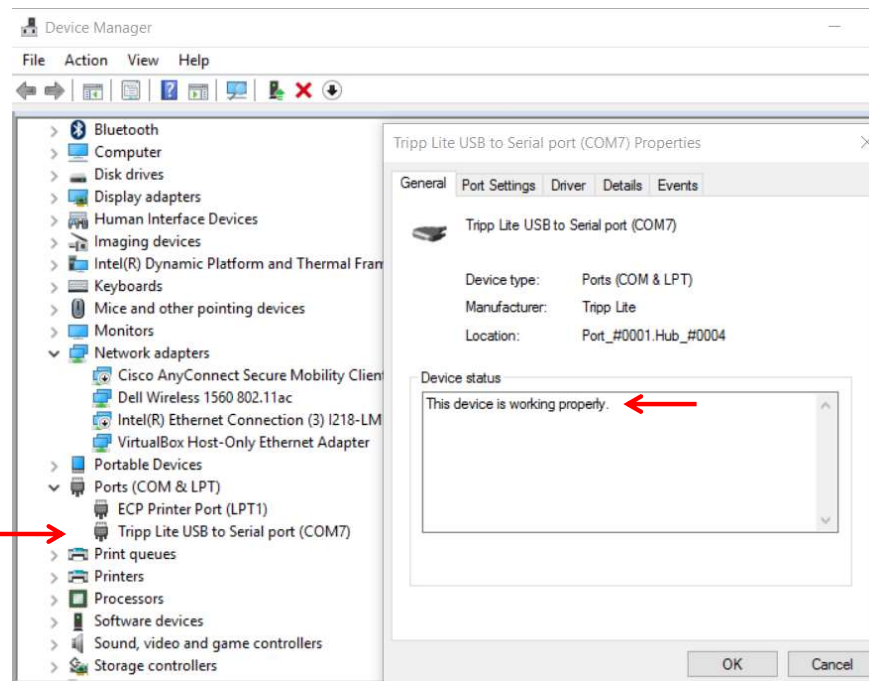
- Double click on the port to find device status or update the driver.



Configuring a USB to Serial Adapter

 Tripp Lite USB to Serial port (COM7)

Double Click



EZCommand Setup

Double click on EZCommand icon from the desktop.



LectroCount EZCommand - Version: 1.15

File Edit Tools Help

Connect to LCR
 Connect To LCR Node:
 Find LCR Node: to

Command Issue

LCR Status

Registration POS Settings Pending Transactions Flash Software

Preset and Delivery General Setup System Setup Calibration Setup Diagnostics Security Ticket

Price - Tax
 Price/Unit: Tax/Unit:
 % Tax:

Preset Delivery
 Subtotal: Price Preset:
 Gross: Gross Preset:
 Net: Net Preset:

Shift Information
 Shift Start:
 Deliveries: Shift Gross:
 Shift Net: Clear Shift?

Misc Information
 Aux Output 1: Preset Type:
 Aux Output 2: No Flow Timer:
 Aux 1 Flow Toggle: Aux 2 Flow Toggle:

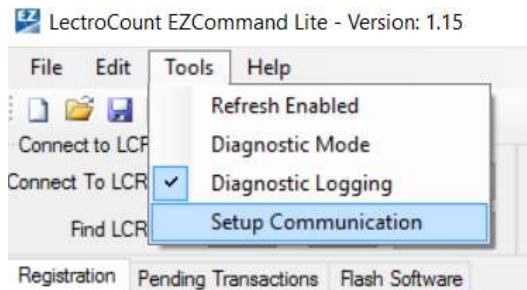
Calibration Information
 Calibration:
 Code:
 Name:
 Type:
 Unit of Measure:

No LCR Connected No Configuration File 19 Mar 2018 16:18:41

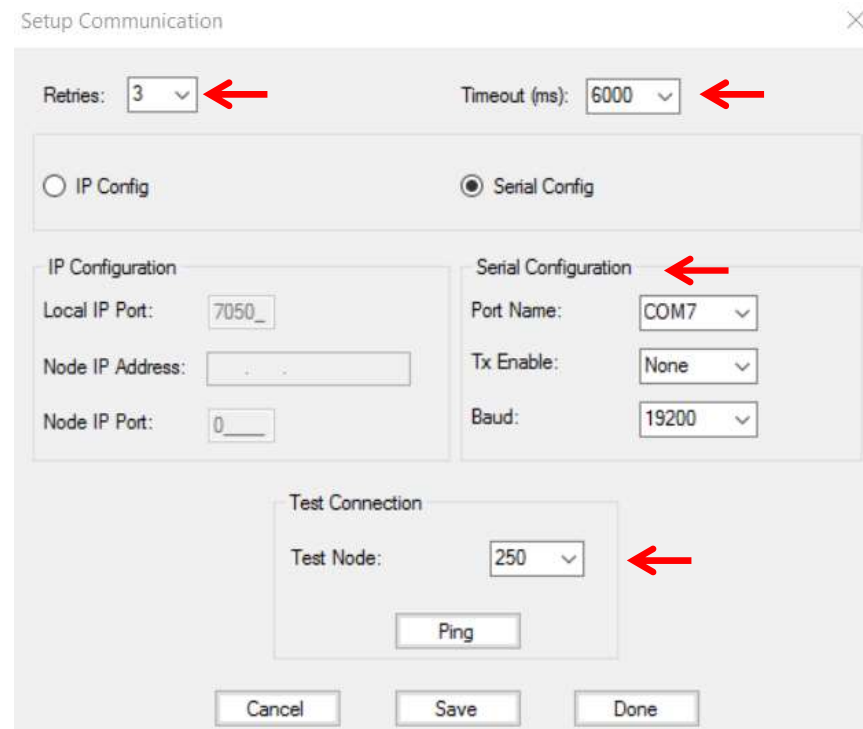
EZCommand Setup

Setting up Communication Configurations

From the **Tools** menu, Click on **Setup Communication** to setup Serial Configuration as shown

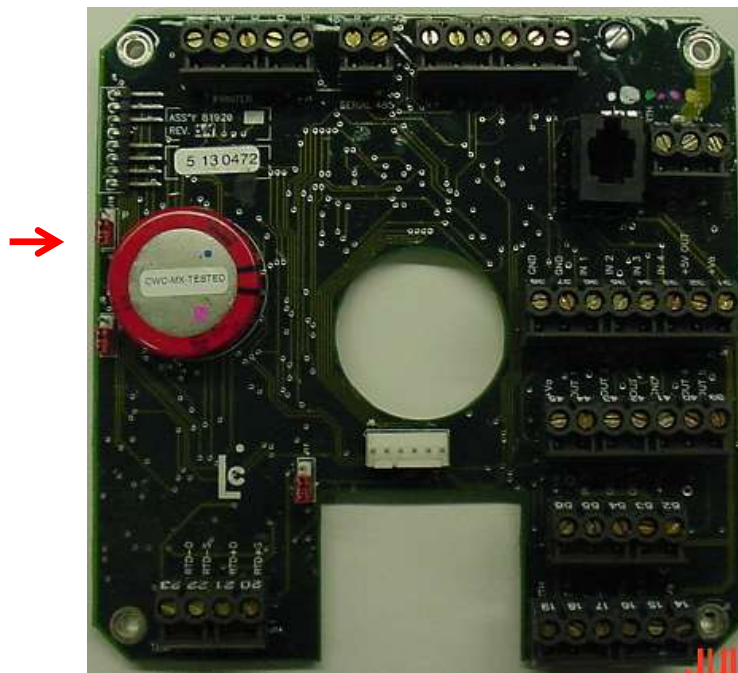


Note: Port Name can be different from port to port on the laptop



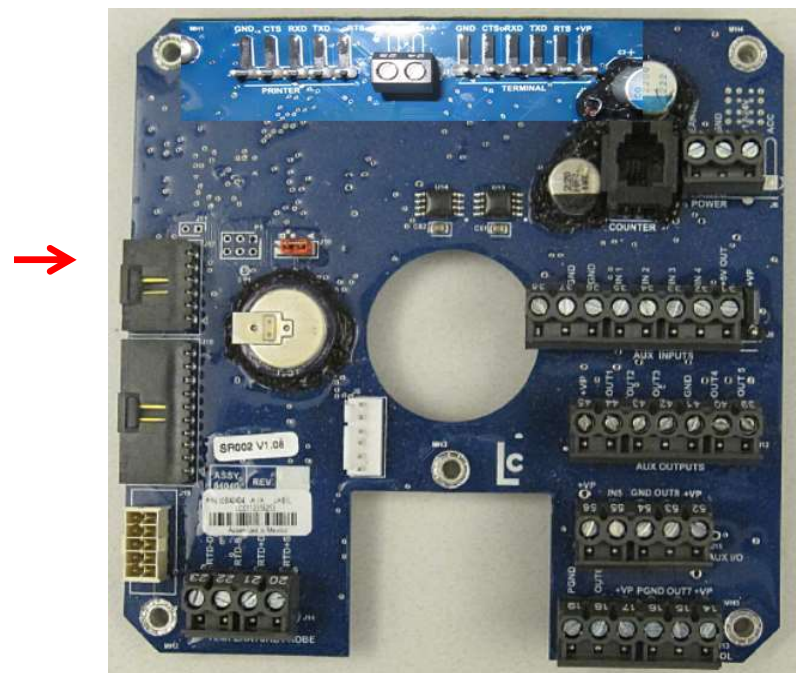
LectroCount LCR-II Board Setup

81920 CPU



J-10 Red jumper must be on Top
("P" RS-485 position)

840405/840406 CPU



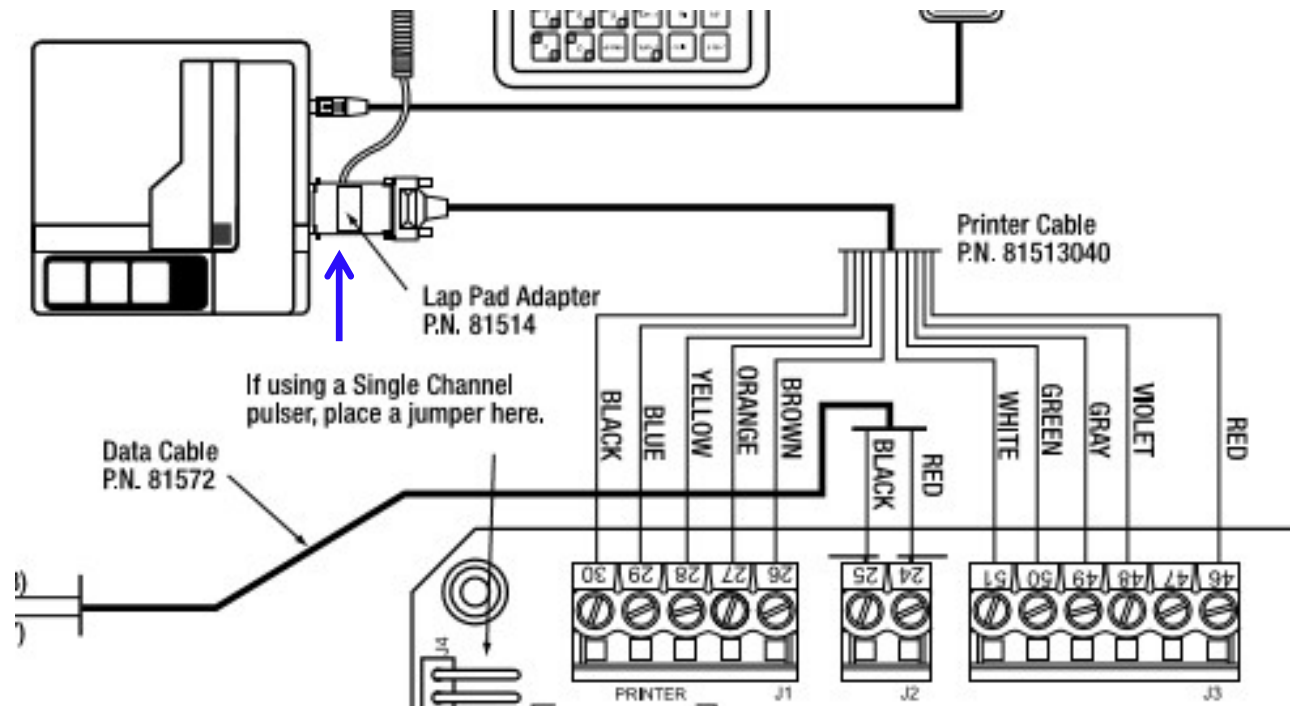
J-10 Red jumper must be on Left
("B" RS-485 position)

LectroCount LCR-II / LCR600 Board Setup

Option 1: Connecting through Lap-Pad adapter/Communication Cable



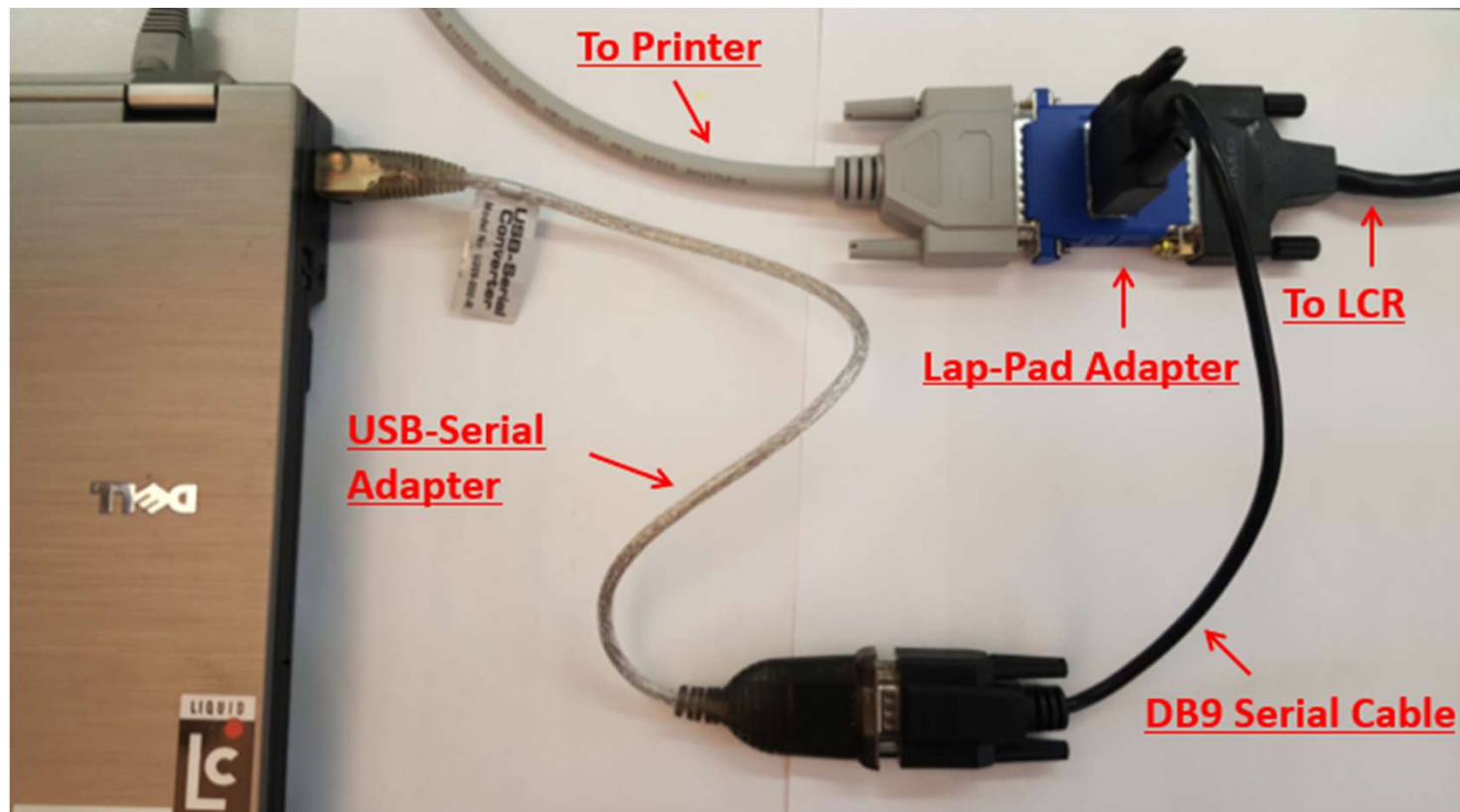
Lap-Pad Adapter



See next slide for actual setup picture

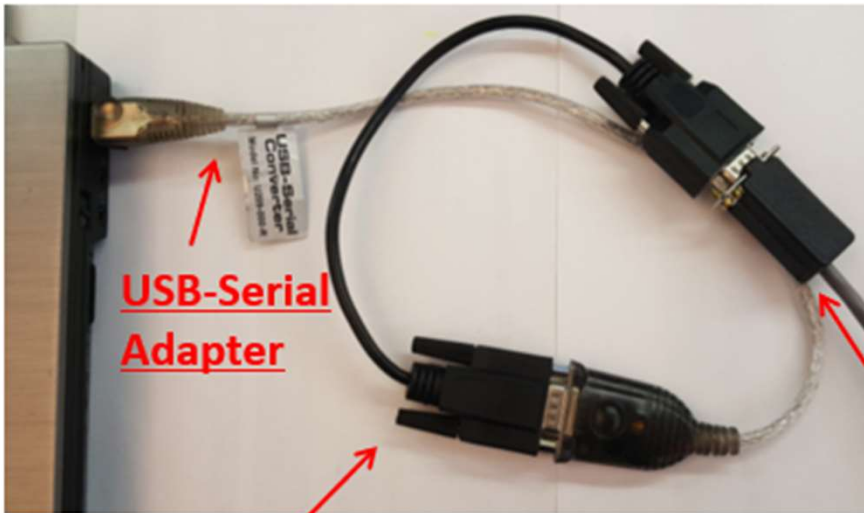
LectroCount LCR-II /LCR600 Board Setup

Option 1: Connecting through Lap-Pad adapter/Communication Cable



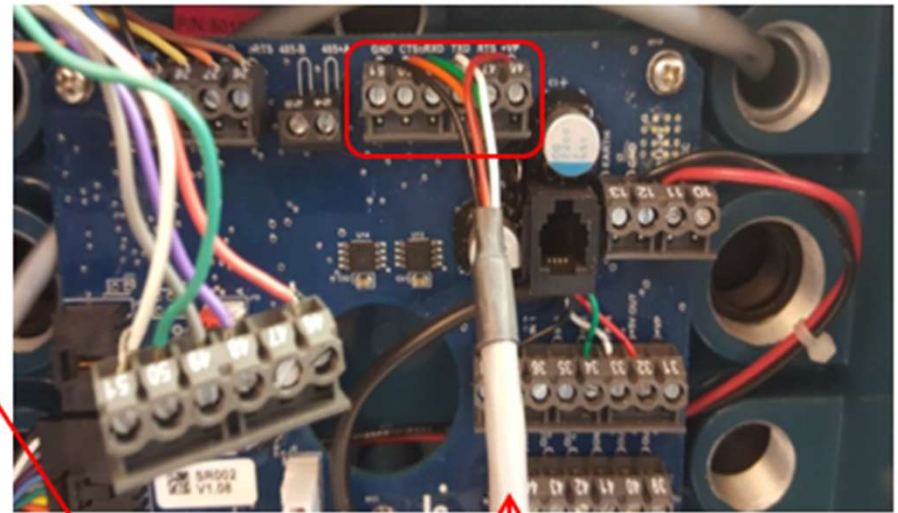
LectroCount LCR-II /LCR600 Board Setup

Option 2: Connecting directly to LCR-II board



USB-Serial
Adapter

B9 Serial Cable



Flash Cable to the LCR-II or LCR 600 @ J3

Testing Connection

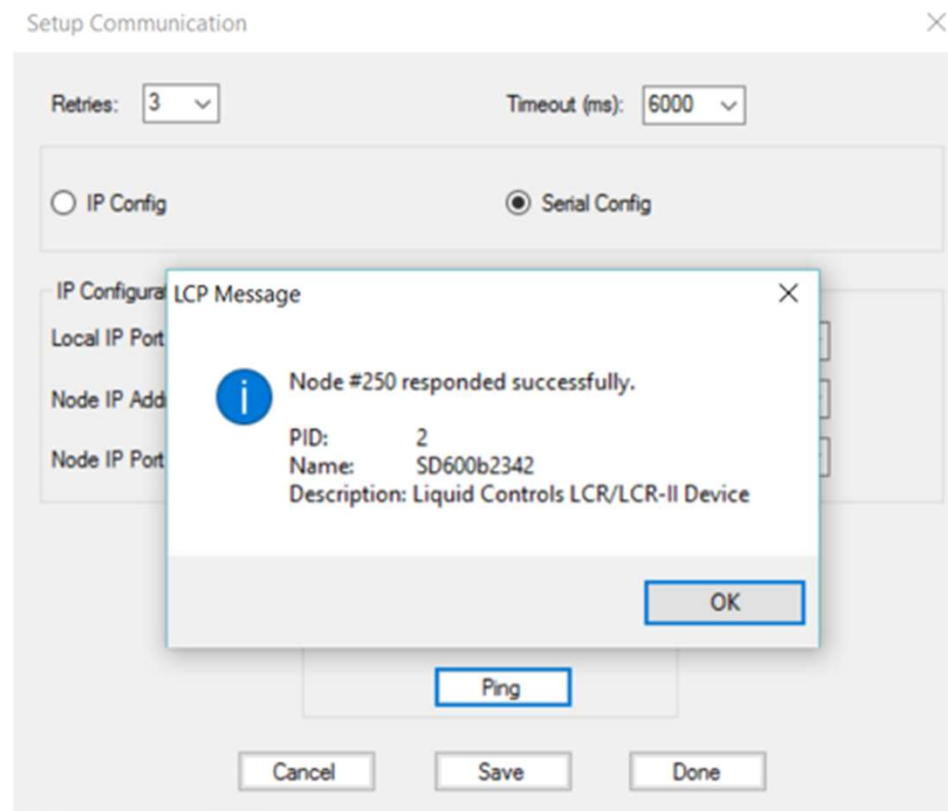
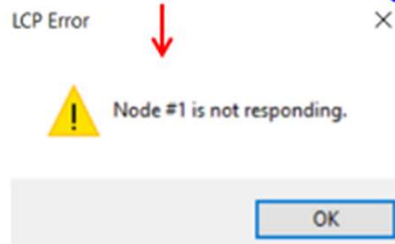
1-Apply power to the LCR-II

2- Click **"Ping"** to test the connection with Test Node 250

3- Click **"Save"** to save the current node setup

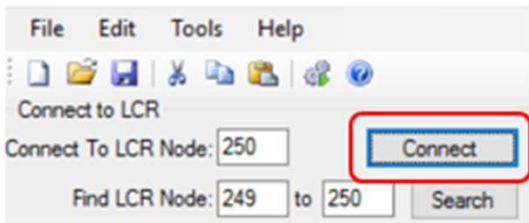
Note: In some cases, test node may be "1,2" but can be between 1-250.

Incorrect node connection message

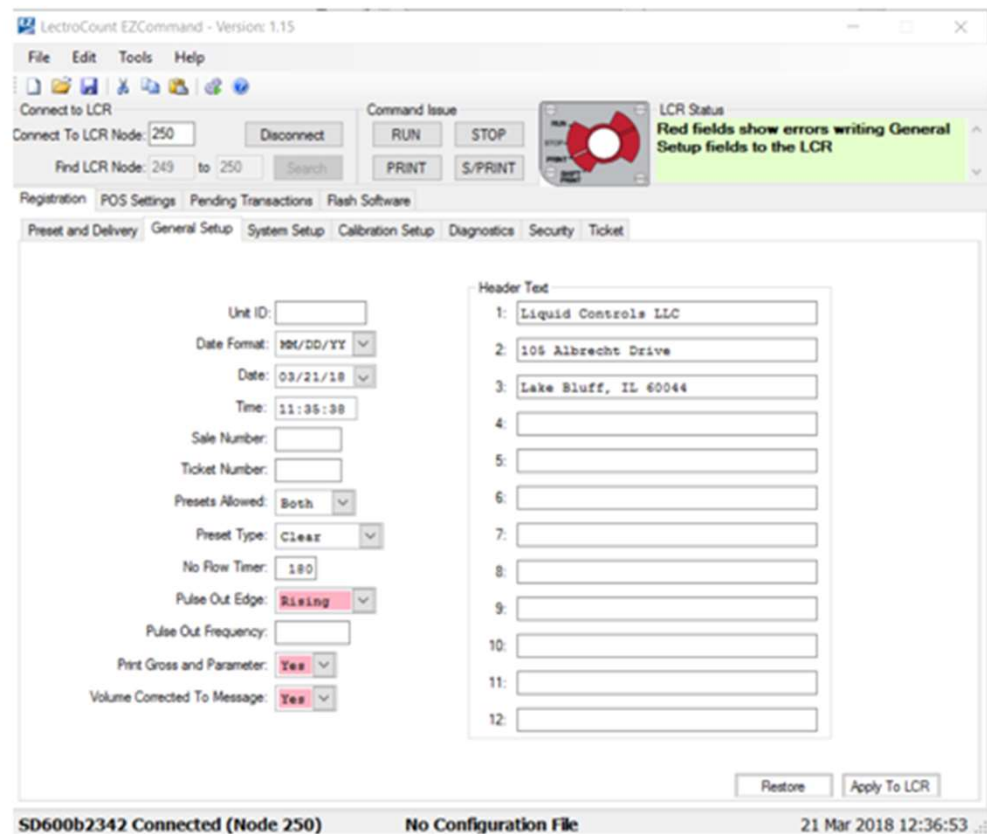
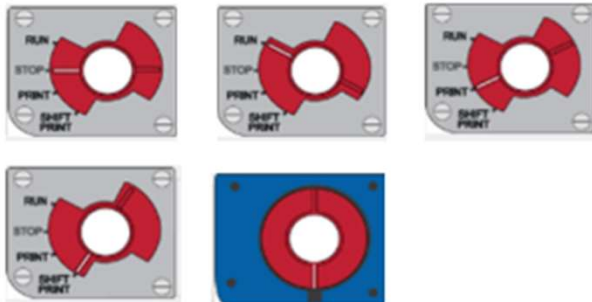


Connecting to LCRII / LCR600

Press **“Connect”** to establish connection



Note: Good connection will always show the real-time “Red” knob position



Configurations Setup

Note: For Metrologically significant data , **“Red”** knob must be in the “Calibration” position.
Click **“Apply To LCR”** after modifying any changes to each Setup tab.

Missing Apply To LCR See next slide



LectroCount EZCommand - Version: 1.15

File Edit Tools Help

Connect to LCR

Connect To LCR Node: 250 Disconnect Command Issue RUN STOP

Find LCR Node: 249 to 250 Search PRINT S/PRINT

LCR Status: Successfully retrieved System Setup fields from the LCR

Registration POS Settings Pending Transactions Flash Software

Preset and Delivery General Setup System Setup Calibration Setup Diagnostics Security Ticket

Meter ID: New LCR Node Address: Change

Ticket Required: Yes Flow Direction: -> Temperature: 75.09 Change

Printer: Epson OldFontA Temperature Offset: 0.00

Unit of Measure: Gallons Temperature Unit of Measure: DEG. F

Flow Rate Base: Per Minute Delivery Screen: XL Delivery Display

Decimal Digits: Tenths DBM Node Address: 255

Residual Processing: Round File Server Node Address: 249

Pulses/Distance: 2.0000 File Server Port: J3

Calibration Distance: 0.0 Baud Rate: 57600

Odometer: 0.0 Retries: 1

RTD Slope: 0.0155 Timeout: 200

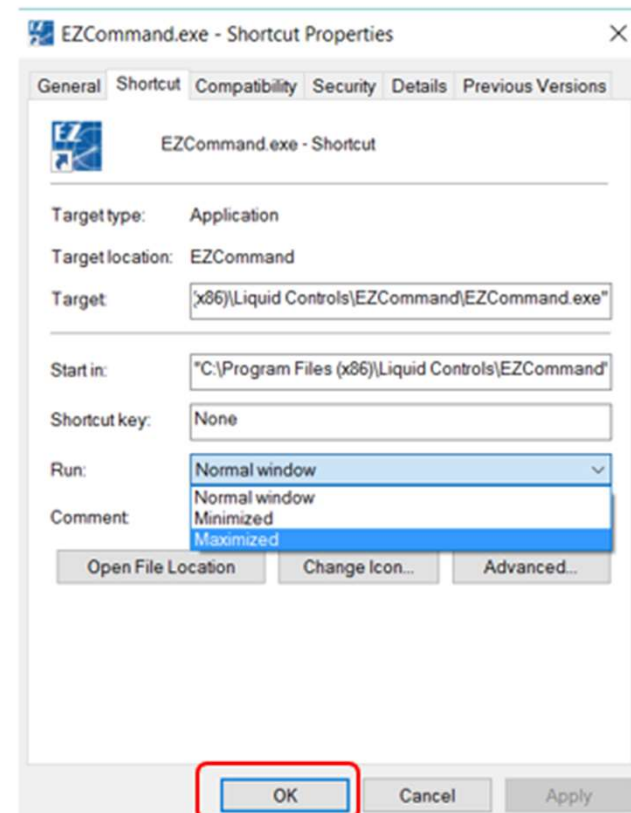
RTD Offset: -124.4 Tx Enable: None

dP Shutdown Value: 0.0

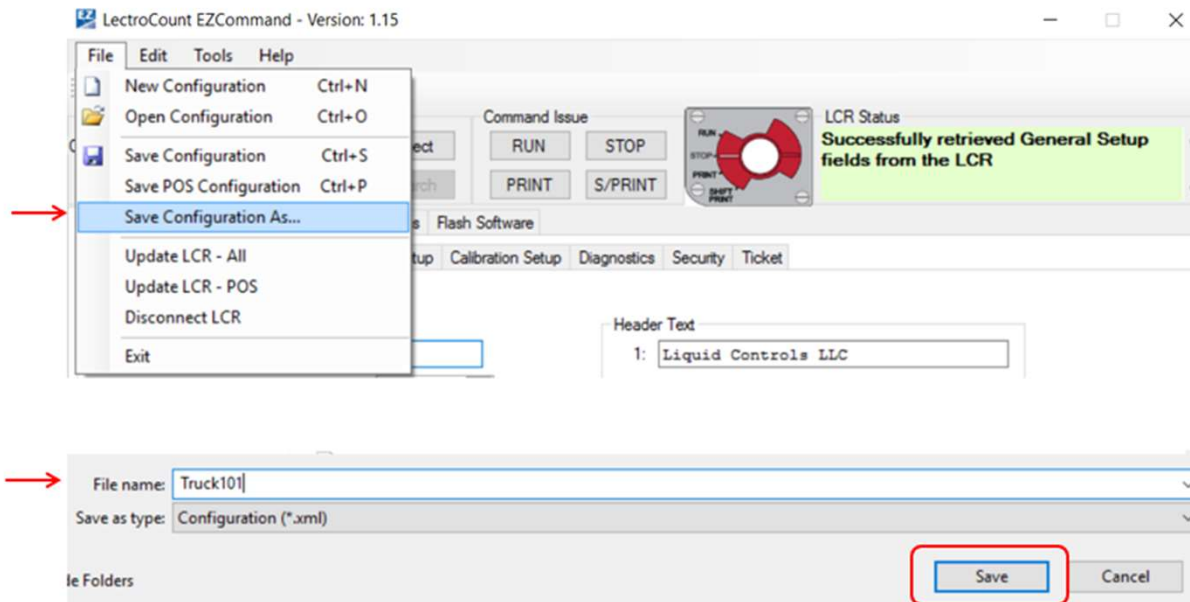
Restore Apply To LCR

Modifying EZCommand Resolution

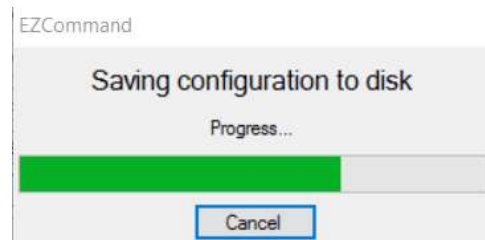
- Right click on EZCommand icon on desktop to change the window setting to **“Maximized”** under **“Properties”**



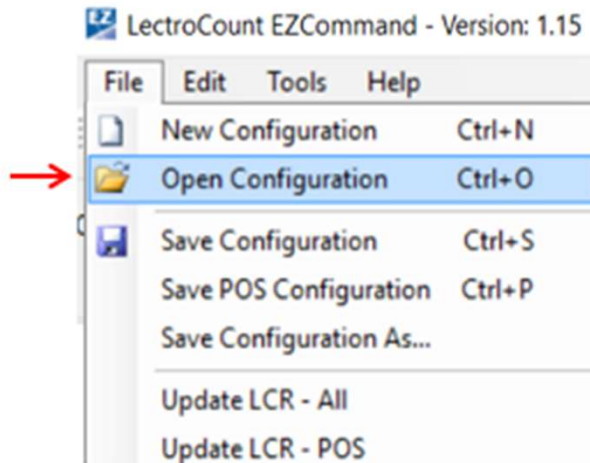
Saving Configuration on Computer



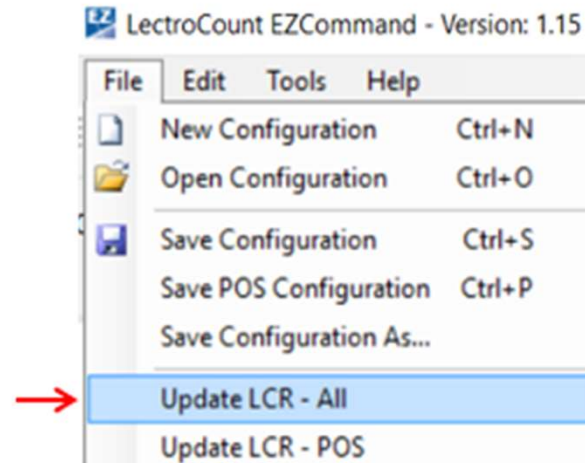
Note: Configuration can be saved while "Red" knob in any position but when loading the configuration back to LCR, "Red" knob must be in the "Calibration" position.



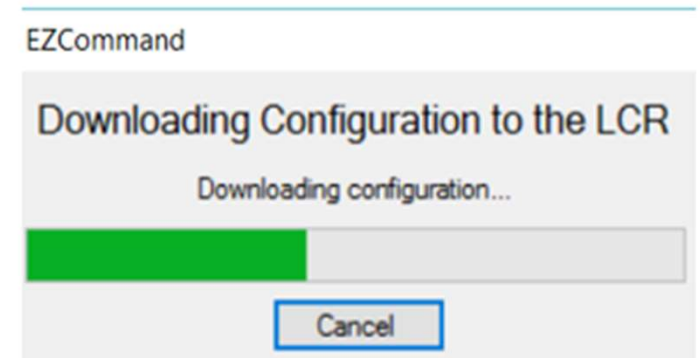
Updating Configuration to the LCR



Step: 1

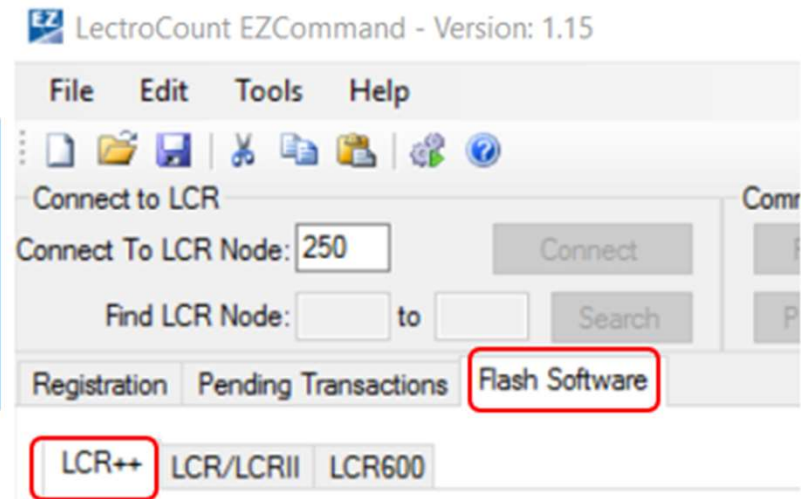
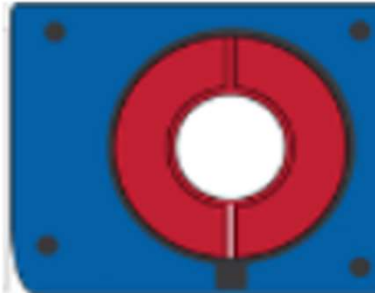
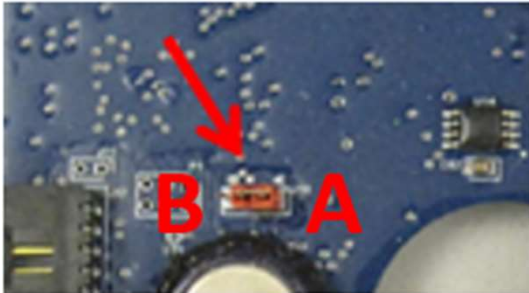


Step: 2



Flashing LCRII ++ 840405 / 840406 Boards

- With power off on the LCR-II. “Red” J10 jumper must be in “B” position
- “Red” knob must be in the “Calibration” (6 O’clock) position
- Click “Flash Software” tab to select LCR++ on EZCommand



Flashing LCR II ++ 840404 / 840405 Boards

- Map **Firmware/Language/Ticket** by clicking on the small box on the right
- Click “**Connect**” & **Apply power** to the LCR II. You can apply power to the LCR II first before clicking connect but may requires Power Cycle to Connect
- LCR Status should display connection message “**Ready**” to program
- At the bottom click “**Program**” to start Flashing the firmware to the LCR II

Port Name: COM7

Firmware: C:\Users\arai\Documents\Release Drive\Engineering\LCR\SR200\SD260.s19

Language: C:\Users\arai\Documents\Release Drive\Engineering\LCR\SR200\SL200.hex

Ticket: C:\Users\arai\Documents\Release Drive\Engineering\LCR\SR200\ST200.hex

LCR Status

Connection established.
Ready to program the LCR++ main board.

“Clear All” Procedure (Recommended)

- Under “**Registration**” click “**Connect**” to the LCR II
- Under “**General Setup**” change the date to “**01/01/00**” & Click “**Apply To LCR**”
- Under “**Security**” Add Calibration Number to “**65792**” (**Example: 14 + 65792=65806**)

(If calibration number shows an “**Error**” count this as zero)
- Enter the Total number on the “**Factory Key**” box & click “**Apply To LCR**”
- Click “**LCR Reset**” to select “**Clear All**” under “**Factory Setup**” & “**Apply To LCR**”

Continuous on next page

“Clear All” Procedure (Recommended)

Note: LCR II display will show “SR-260” firmware. Press “SELECT” from the door cover or “INCREASE” to change the firmware. Press “SELECT” once correct firmware displayed

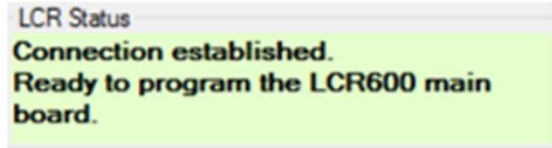
Standard Firmware



Aviation Firmware



Flashing LCR600

- Apply power to the LCR 600 unit while “Red” knob in the [Calibration position](#)
- From EZCommand , Select “**LCR600**” under “**Flash Software**”
- Check mark “**Firmware**” only and map the firmware. Example: SR600.s19 or SR601.s19
- Click “**Connect**” and LCR Status change to 
- Click “**Program**” to Flash the Firmware at the bottom of EZCommand

Note: If flashing new CPU board, display will show required files to be flash. All required files must be downloaded from www.lcmeter.com website.

Continuous on next page

Flashing LCR600

Required Language & Ticket files



```

LCR 600 Startup

A complete set of language and ticket
files must be downloaded to this device
before it can begin operation.

=====Needed Files=====
C000L000.lng  C001L000.lng  C002L000.lng
C003L000.lng  C004L000.lng  C026L000.lng
C600L000.lng  T600L000.lng  ST600R62.tkt
ST600S00.tkt  ST600C00.tkt

=====

Node Address: 250      Baud Rate: 19200
NURAM Size: 00070000  Drive: 00030000
Files: 0    Used: 6498  Avail: 190110

LCR Date/Time:      03/23/18 11:18:36
→ Perform "Clear All" Operation
→ ▶Format Drive With Default Parameters
  
```

Step 1: Format Drive

Step 2: Perform "Clear All"

Flashing LCR 600 w/Standard or FlightConnect Language Files Conti...

Select All: ☐ Port Name: COM7

Firmware: ☐ C:\Users\ara\Documents\Release Drive\Engineering\LCR\SR600\SD600.s19

Step 3: Check Show Standard Language Files

Step 4: Check **"Select All"** box and **Check off "Firmware"** box

Step 5: Map all **"Ing & tkt"** files

Step 6: Click **"Program"**

Step 7: Configure LCR 600 manually or load the configuration thru EZCommand Lite if configuration exist in the system

Enable Safe Writes: ☒ ☒ Show Standard Language Files ☐ Show FlightConnect Language Files ☐ Show Database Files

Name	Select	Filename	Browse
C000Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\C000L000.ing	...
C001Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\C001L000.ing	...
C002Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\C002L000.ing	...
C003Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\C003L000.ing	...
C004Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\C004L000.ing	...
C026Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\C026L000.ing	...
C600Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\C600L000.ing	...
T600Lxxx.ing	☒	R:\Engineering\LCR\SR600\Language\T600L000.ing	...
ST600Rxx.tkt	☒	R:\Engineering\LCR\SR600\Ticket\ST600R00.tkt	...

Program

LCR Status
Writing C002L000.ing file...

Progress bar: [Green bar]

LCR 600 Drive Format

- LCR 600 drive can be “**Format**” only from the LCR 600 using door keypad. You cannot format the drive thru EZCommad program.

Step 1: Change the date under “**General Setup**” to 01/01/00

Step 2: Under “**Security**” add Calibration # to 65792 Example (4 + 65792 = 65796)

Step 3: Under Security select “**Factory Key**” and enter 65796. Press Enter when done

Step 4: Go to **Factory Setup 2 screen** to access “**Format Drive**” option

Step 5: Select “**Format Drive**” and select “**Yes**”

Step 6: **Power cycle** the power on LCR 600 and display will show up ref to slide 34

Flashing LCR 600 single file

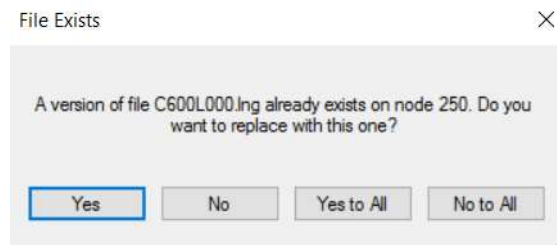
- If necessary, a single file can be flash in the LCR 600

Step 1: Move “**Red**” knob switch in the “**Calibration**” position

Step 2: Pick and map the file under **Flash Software/LCR600**

Step 3: Click on “**Program**” to start flashing the file

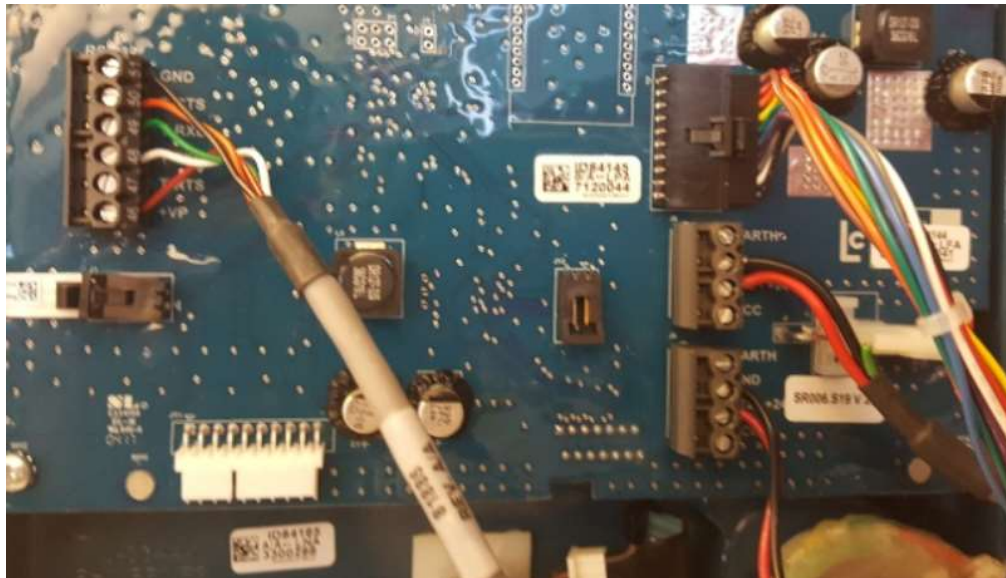
Note: If File exists, below message will appear. Click **Yes** to flash the file



Flashing LCR 600 Display

Step 1: Power off, LCR 600 “Red” knob can be in Stop or Calibration position

Step 2: Connect flash cable in the back of display “RS232 port”



Continuous on next page

Flashing LCR 600 Display Conti...

Step 3: Check “**Firmware**” box and map LCR 600 display file “**SR006.s19**” under “**Flash Software/LCR600**”

Step 4: Click “**Connect**” & “**apply power**” to the LCR 600. Display will go blank

Step 5: Click “**Program**” and display firmware will be loaded. Partial display will be displayed after completion of flashing

Step 6: “**Power cycle**” the LCR 600