

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курган (3522)50-90-47  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Магнитогорск (3519)55-03-13

Россия +7(495)268-04-70

Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Ноябрьск (3496)41-32-12  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Пермь (342)205-81-47  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37

Казахстан +7(7172)727-132

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саранск (8342)22-96-24  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97

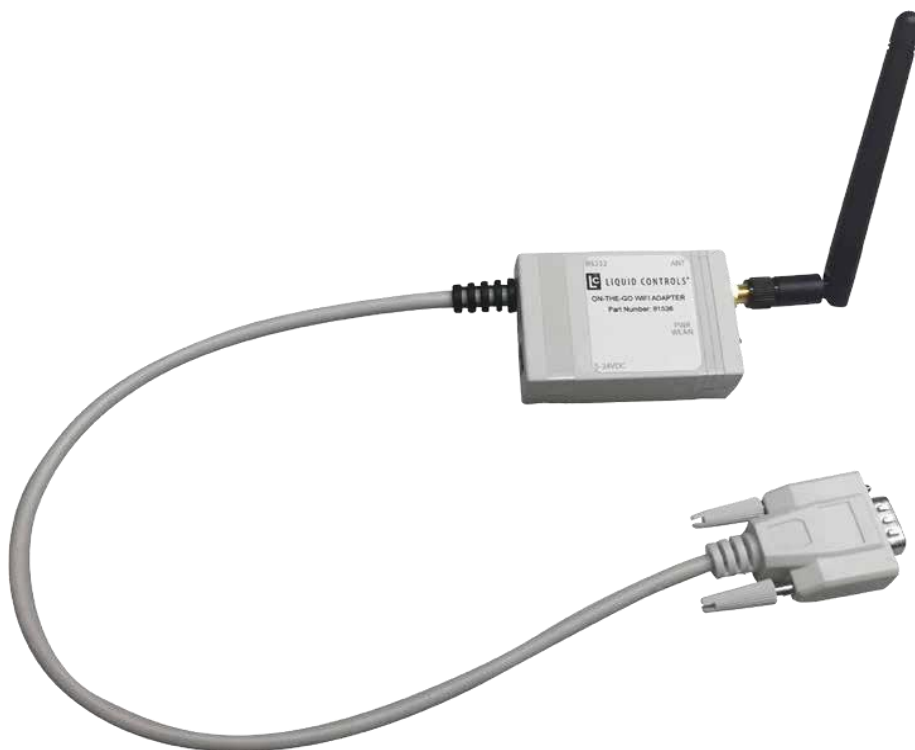
Киргизия +996(312)96-26-47

Тверь (4822)63-31-35  
Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Улан-Удэ (3012)59-97-51  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

crn@nt-rt.ru || <https://lcmeter.nt-rt.ru/>

## LC-ON THE GO™ Wireless WiFi Adapter P/N 81538

## Set-up and Connection Guide



LIQUID CONTROLS®

An IDEX Energy & Fuels Business

LC\_IOM\_ONTHEGOWIFIADAPTER V1: 05/17

# PUBLICATION UPDATES AND TRANSLATIONS

---

The most current English versions of all Liquid Controls publications are available on our web site. It is the responsibility of the local distributor to provide the most current version of LC manuals, instructions, and specification sheets in the required language of the country, or the language of the end user to which the products are shipping. If there are questions about the language of any LC manuals, instructions, or specification sheets, please contact your local distributor.

The documentation is only complete when used in combination with the relevant documentation for the wifi adapter.

All rights reserved. It is prohibited to reproduce this documentation, or any part thereof, without the prior written authorization of Liquid Controls, LLC.

Content is subject to change without notice.

05/2017 LC-ON THE GO™ Wireless WiFi Adapter

© Copyright 2017 by Liquid Controls, LLC.



## **WARNING**

Before using this product, read and understand the instructions.

Save these instructions for future reference.

All work must be performed by qualified personnel trained in the proper application, installation, and maintenance of equipment and/or systems in accordance with all applicable codes and ordinances.

Failure to follow the instructions set forth in this publication could result in property damage, personal injury, or death from fire and/or explosion, or other hazards that may be associated with this type of equipment.

# TABLE OF CONTENTS

---

I. Basic Set Up.....	4
II. Connecting to a Single Meter System.....	7
III. Connecting to an Existing Dual Meter System.....	8
IV. Connecting to a New Dual Meter System.....	9
V. Connecting to EZ Command or EZ Command Lite .....	12

# I. BASIC SETUP

## Follow this Quick Start Guide to get your unit up and running fast.

The LC-ON THE GO™ WiFi Adapter contains the following items: wireless WiFi module and antenna. It requires a lap-pad adapter 81514 (single meter systems) or multiplexer box E25352 (dual meter systems).



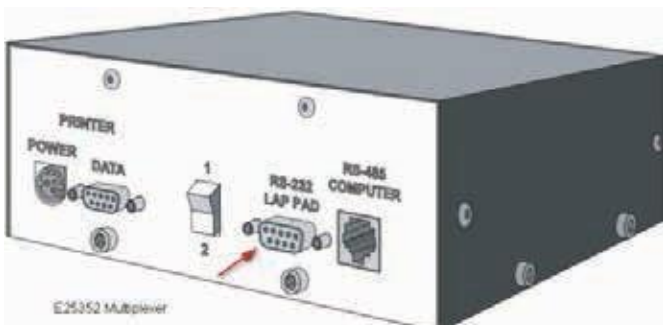
Also required (sold separately):

Lap pad adapter (81514) for single meter system



OR

Multiplexer box (E25352) for dual meter system



1. Install antenna onto the Wireless WiFi module.

2. Plug the DB9 connector into the lap pad adapter or the RS-232 Lap Pad female DB9 connection on the multiplexer.

The WiFi adapter will receive power through the lap pad adapter or the multiplexer box. The green light on the adapter will illuminate when power is applied to the register.

3. Go to Settings or Wireless Network Connections to find the wireless SSID on your Apple or Android wireless device, or laptop computer.

Search for available WiFi networks. With power to the adapter, the wireless module will broadcast its own unique SSID. The default SSID is XpicoWiFi\_XXXXXX, where XXXXXX are the last six characters of the unique xPico Wi-Fi serial number on the back of the adapter. For example, if the serial number on the label is 0080A3A07AA0, then the SSID would be xPicoWiFi\_A07AA0. Click on the XpicoWiFi SSID link to display the connect screen.

Note: The SSID can be customized by the user. (See section 5. Entering the Liquid Controls Configuration Mode.



#### 4. Making the WiFi connection

The default security for the XpicoWiFi Soft AP is WPA2.

The factory default password is the same for all WiFi adapter devices.

**Password:** onthegowifi

Note: the password can be changed via the configuration interface (See section 5. Entering the Liquid Controls Configuration Mode)



#### 5. Entering the Liquid Controls Configuration Mode

Connect to the WiFi via local Windows™ PC or Tablet.

Open a web browser and navigate to 192.168.0.1.

Enter default User Name and Password. (Note: both are case sensitive).

**User Name:** admin

**Password:** PASSWORD



# I. BASIC SETUP

## 6. Default Key Configuration Settings

**Product Information**

Product Type:	oPico/Wi
Firmware Version:	1.4.8.9R2B
Build Date:	Oct 22 2016 (10:55:28)
Serial Number:	008A3A37A40
Uptime:	0 days 07:32:69
Permanent Config:	saved

**Network Settings**

MAC Address:	00:80:A3:A0:7A:A0
--------------	-------------------

**Interface ap0**

State:	Up
SSID:	Xpico/WiFi_107AAB
Security Suite:	WPA2
IP Address:	192.168.0.124

**Interface wlan0**

Connection State:	Disconnected
-------------------	--------------

**Line Settings**

Line 1:	19200, None, 8, 1, None, Luntal
Line 2:	9600, None, 8, 1, None, Command Line

**Tunneling**

Tunnel 1:	Waiting	Connect Mode:	Disabled
Tunnel 2:	Inhibited	Connect Mode:	Inhibited

Copyright © Liquid Controls 2017. All rights reserved.

## 7. Changing the SSID:

Enter the Admin Screen and click on NETWORK, “LINK” and “Configuration”

Click on the SSID and assign a new SSID.

Click to submit the new SSID. The unit will update and disconnect. Re-establish the connection by finding the new SSID and entering the passphrase.

**Access Point ap0 Configuration**

SSID:	Xpico/WiFi_10-6a
Guest:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Channel:	1
Suite:	WPA2
Encryption:	<input checked="" type="checkbox"/> CCMP <input type="checkbox"/> TKIP
Passphrase:	*****
Mode:	Always Up

Copyright © Liquid Controls 2017. All rights reserved.

## 8. Changing the Password:

Enter the Admin Screen and click on NETWORK, “LINK” and “Configuration”

Click on Password and assign a new password.

Click to submit the new SSID. The unit will update and disconnect. Re-establish the connection by finding the new SSID and entering the passphrase.

**LCR Configuration**

Configuration	Status
Name: LCR	
State: <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Enabled
Protocol: Tunnel	Tunnel
Baud Rate: 19200 bits per second	19200 bits per second
Parity: none	None
Data Bits: 8	8
Stop Bits: 1	1
Flow Control: None	None
Gap Timer: <Four Character Periods> milliseconds	
Threshold: 100 bytes	

The Name is for display purpose only.

**Tunnel 1 Accept Configuration**

Mode:	Accept
Local Port:	10001
Protocol:	TCP
Flush Line:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Block Line:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Block Network:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Password:	

Tunnel: Accept controls how a tunnel behaves when a connection attempt originates from the network.

**Access Point ap0 Configuration**

SSID:	Xpico/WiFi_10-6a
Guest:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Channel:	1
Suite:	WPA2
Encryption:	<input checked="" type="checkbox"/> CCMP <input type="checkbox"/> TKIP
Passphrase:	*****
Mode:	Always Up

Copyright © Liquid Controls 2017. All rights reserved.

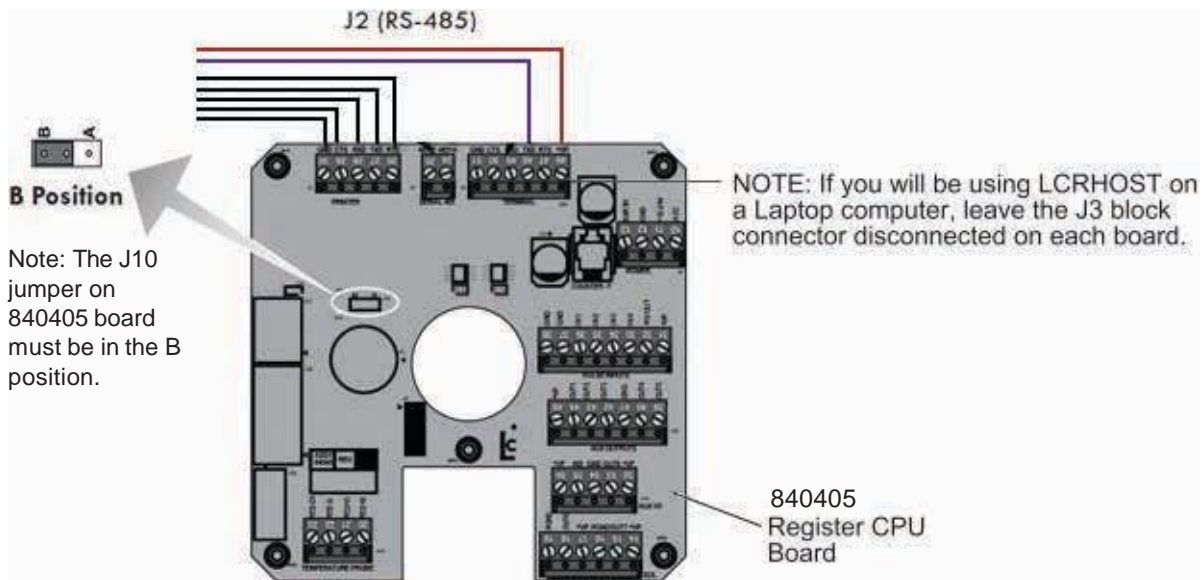
## II. CONNECTING TO A SINGLE METER SYSTEM

### 9. Setting Up A Single Meter System

A single meter system consists of a meter, an electronic register and a printer. The ON THE GO WiFi adapter may be used to communicate with the register using Lap Pad adapter 81514. Connect the Lap Pad adapter to the printer and data cable (81513-series). Connect the ON THE GO WiFi adapter to the lap pad adapter. The green power light on the ON THE GO WiFi adapter will illuminate when the system is powered. A separate power supply is not required.



Lap pad adapter (81514) for single meter system



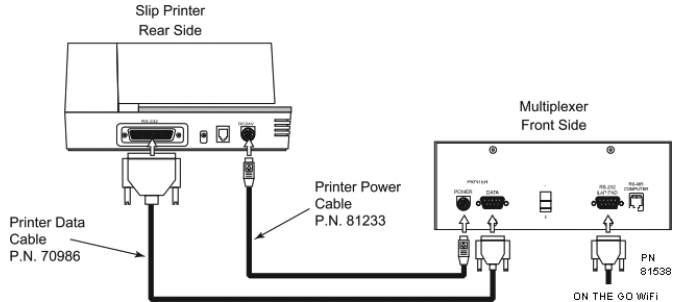
### III. CONNECTING TO AN EXISTING DUAL METER SYSTEM

#### 10. Setting up a Dual Meter System – Existing System.

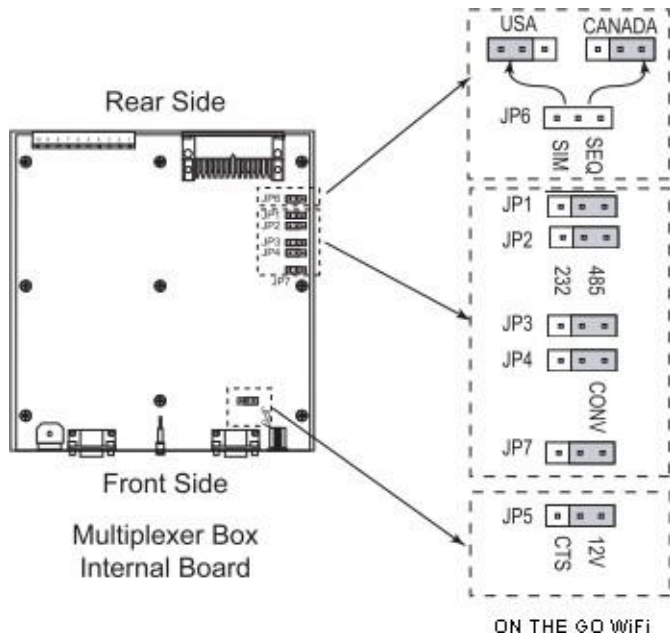
A dual meter system consists of 2 meters, 2 electronic registers, a multiplexer box and a printer.

- Set the Internal Jumpers. Using a 5/64" Allen wrench, remove the 8 black socket head screws and remove the cover of the multiplexer box.
- Locate JP5 and move the jumper from the CTS position to the 12V position.
- Replace the cover on the multiplexer box.

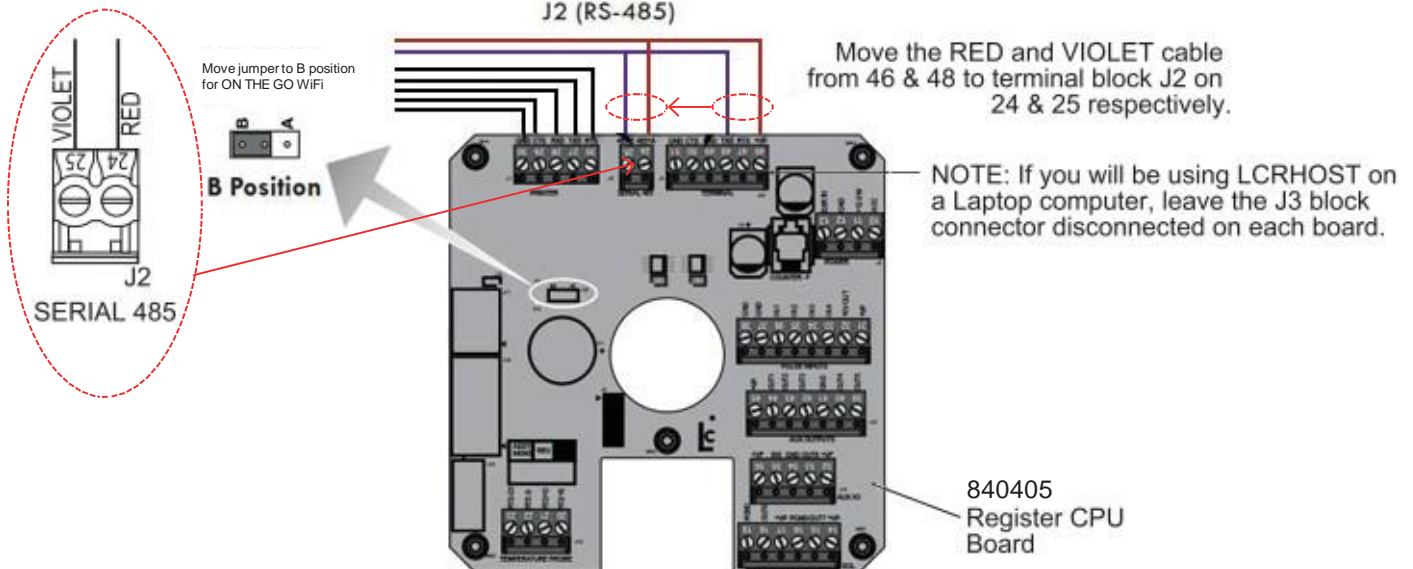
- Connect the ON THE GO WiFi adapter to the RS-232 LAP PAD female DB-9 connection on the front of the multiplexer box.



- The green power light on the ON THE GO WiFi adapter will illuminate when the system is powered. A separate power supply is not required.



- Verify the position of the J10 jumper on the 840405 board inside the LCR-II or LCR600. The J10 jumper must be in the B position.



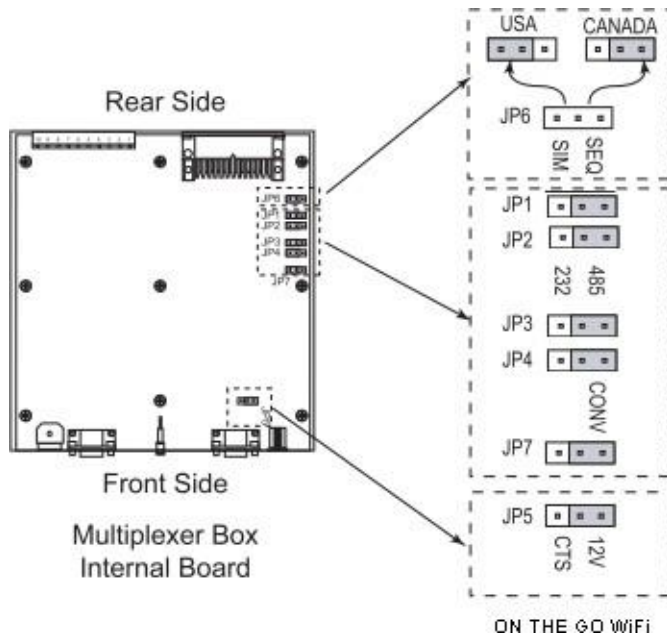


# IV. CONNECTING TO A NEW DUAL METER SYSTEM

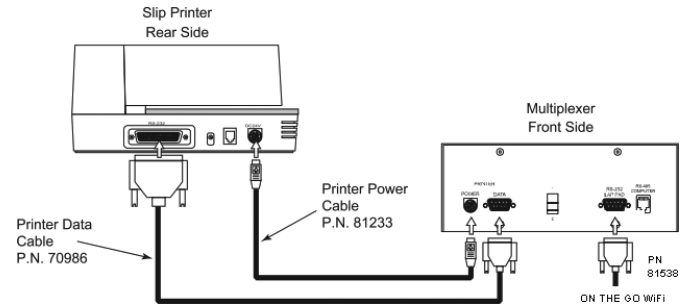
## 11. Setting up a Dual Meter System –NEW System.

A dual meter system consists of 2 meters, 2 electronic registers, a multiplexer box and a printer.

- a. Set the Internal Jumpers. Using a 5/64" Allen wrench, remove the 8 black socket head screws and remove the cover of the multiplexer box.
- b. Locate JP5 and move the jumper from the CTS position to the 12V position.
- c. Jumpers JP1, JP2, JP3, JP4 and JP7 should be positioned on the right.
- d. Replace the cover on the multiplexer box.



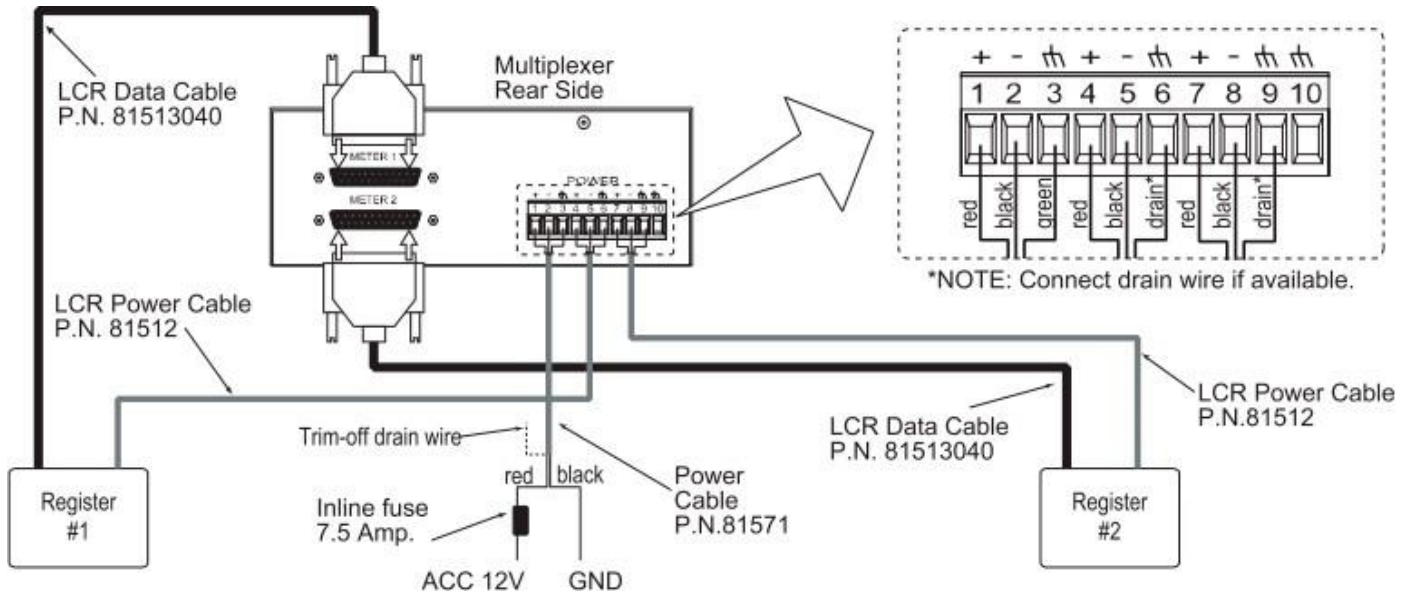
- e. Install the Multiplexer and connect the printer. Install the multiplexer in its final location and make sure it is grounded properly. Next, plug in the data and the power cable into the front side of the multiplexer. Plug the other end of the cables into the back of the printer.
- f. Connect the ON THE GO WiFi adapter to the RS-232 LAP PAD female DB-9 connection on the front of the multiplexer box.



- g. The green power light on the ON THE GO WiFi adapter will illuminate when the system is powered. A separate power supply is not required.

## IV. CONNECTING TO A NEW DUAL METER SYSTEM

h. Connect Register Data and Power cables. Run the register's data and power cables through split loom, under the vehicle and connect them to the multiplexer box as shown:



i. Set up the Register's Communication Protocol

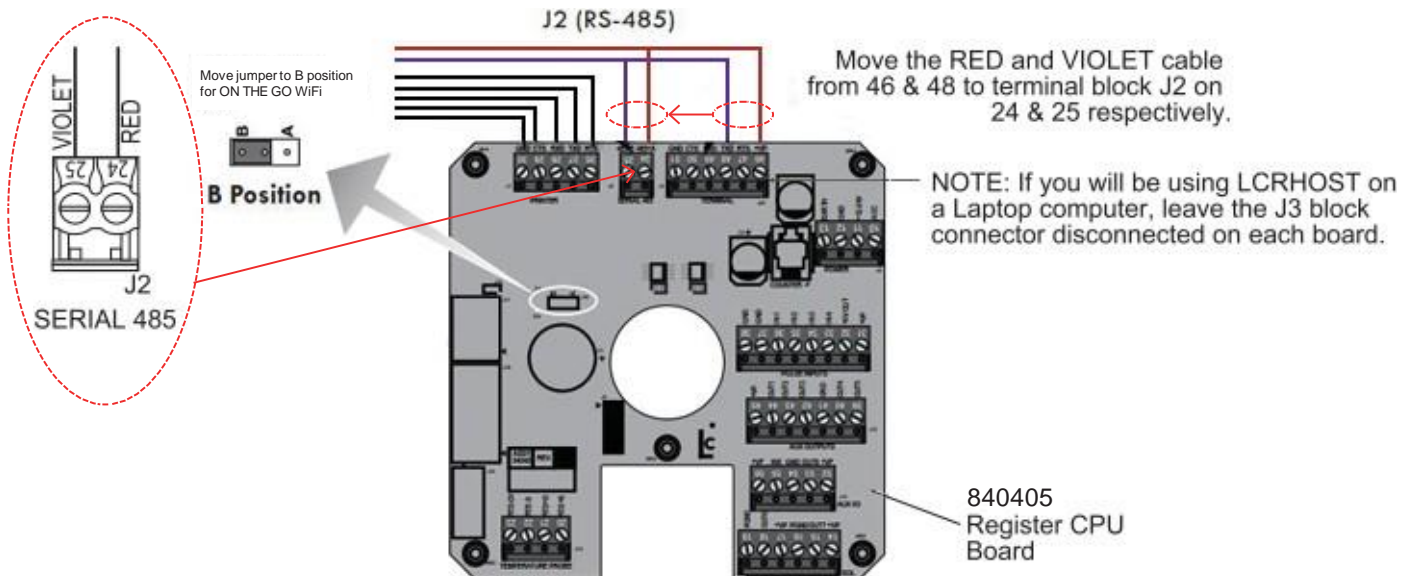
NOTE: Make sure the register is powered OFF before moving the jumper or the cables.

In order to communicate with a computer device, the cabling must be modified inside both register heads.

- Remove the RED and VIOLET cable from terminal block J3 and wire them into terminal J2.
- Move the RED wire from pin 46 on terminal block J3 to pin 24 on terminal block J2.

- Move the VIOLET cable from pin 48 on terminal block J3 to pin 25 on terminal block J2.
- Move the J10 jumper to the B (485) position.

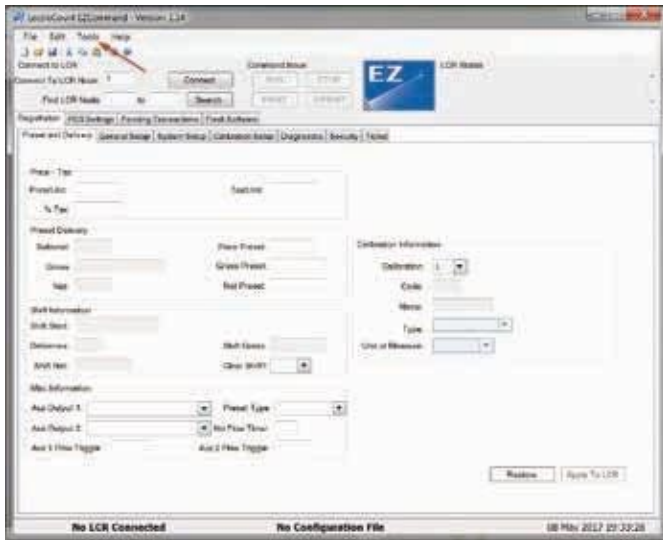
j. The green power light on the ON THE GO WiFi adapter will illuminate when the system is powered. A separate power supply is not required.



# V. CONNECTING TO EZ COMMAND OR EZ COMMAND LITE

## 12. Using the ON THE GO™ WiFi Adapter to Connect to EZ Command or EZ Command Lite

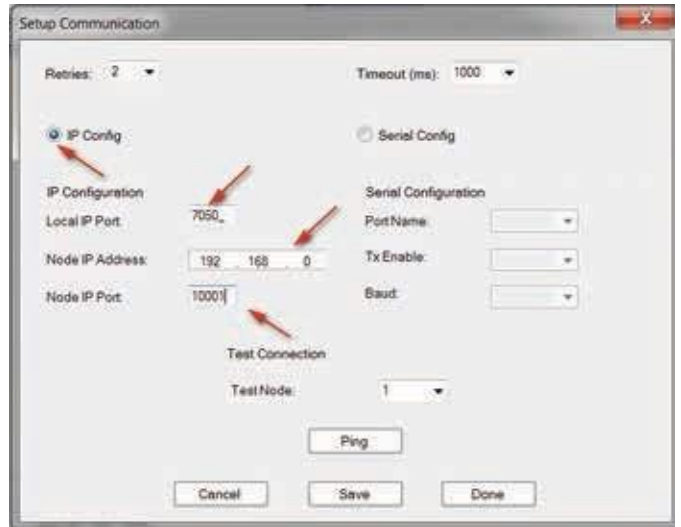
- a. Connect ON THE GO WiFi Adapter to a Lectrocount register using a lap pad adapter or multiplexer box.
- b. Turn power on. The green power light on the ON THE GO WiFi Adapter will illuminate.
- c. Connect to the WiFi adapter via a local PC or tablet.
- d. Open EZ Command or EZ Command Lite on the PC or tablet.
- e. Select the Tools tab at the top of the program window



f. From the Tools drop down menu, select Setup Communication:



g. In the Setup Communication window, select IP Config. Enter Local IP Port, Node IP Address, and Node IP Port as follows:



## SPECIFICATIONS FOR P/N: 81538

SECURITY/PROTECTION . . . 256-bit AES Encryption  
 BAUD RATE . . . . . 19200 bps – setting from the factory  
 DATA RATES AVAILABLE . . . 300 bps to 921,600 bps  
 THRESHOLD . . . . . 100 bytes  
 PROTOCOL . . . . . TCP  
 LOCAL PORT . . . . . 10001  
 CONNECTOR(S) . . . . . Serial: DB9 - DTE (male)

ANTENNA . . . . . 4.3 inch WiFi Antenna  
 Omni-directional 'Rubber Duck' Antenna, 2.4 GHz, 2.5 dBi, Reverse SMA, 50 Ohm, 20W  
 TEMPERATURE RANGE  
 Operating Range . . . . . -40°C to +85°C (-40°F to +185°F)  
 Humidity Range . . . . . 0% to 90% non-condensing



## **LIQUID CONTROLS GROUP**



Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курган (3522)50-90-47  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Магнитогорск (3519)55-03-13

Россия +7(495)268-04-70

Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Ноябрьск (3496)41-32-12  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Пермь (342)205-81-47  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37

Казахстан +7(7172)727-132

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саранск (8342)22-96-24  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97

Киргизия +996(312)96-26-47

Тверь (4822)63-31-35  
Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Улан-Удэ (3012)59-97-51  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93