



LB-View / Rx Controller Maintenance Manual

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Rx Monitoring Services, Inc.

A Division of Avtron Power Solutions

1 Sundial Ave Suite 117

Manchester, NH 03103

Tel: 603-666-6606

rxmssupport@avtronpower.com

<http://www.rxms.com>

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WARNING

The Modbus/TCP protocol is inherently unsecure and therefore should be used with care to avoid sensitive information disclosure and unauthorized access. To mitigate the risks associated with weaknesses in the Modbus/TCP protocol, users should set up network segmentation and implement a firewall to block all unauthorized access.

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Definitions

- **WARNING**
This statement is to reinforce the practice of certain conditions may cause physical bodily harm or loss of life.
- **CAUTION**
This statement is to reinforce the practice of certain conditions may cause physical damage to the Load Bank, Cx Monitor, accessories, equipment or property.
- **NOTE**
General information for simplifying the user experience.

Abbreviations

CT's :	Current Transducers	Wireless Probes:	Wireless add-on's for power monitor
Rope Probes :	Rogowski coil current transducers	EWE:	External Wireless Extensions
Cx :	Power Monitor	Site:	Cx Monitor data set.
Monitor :	Power Monitor (Cx)		

Symbols

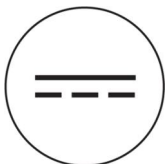
The following are (IEC) symbols are used on this document or on the power monitor, and their definitions.



This symbol indicates AC or DC voltage or current



This symbol indicates that caution is necessary when operating the device or control close to where the symbol is placed, or to indicate that the current situation needs operator awareness or operator action in order to avoid undesirable consequences.



This symbol indicates DC only voltage or current



This symbol indicates high voltage. It calls your attention to items or operations that could be dangerous to you and other persons operation this equipment. Read the message and follow the instructions carefully.



This symbol indicates AC only voltage or current



This symbol indicates safety ground conductor.



This symbol indicates earth ground conductor.



To avoid electric shock or fire:

Review the entire manual before using the Power Monitor and its accessories and observe all warnings and cautions.

- Before using the power monitor inspect wireless probes, voltage probes, current probes, leads and accessories for mechanical damage or broken plastic and call Rx Monitoring Services Inc. for replacements.
- Wear proper Personal Protective Equipment, including safety glasses and insulated gloves when making connections to power circuits.
- Use only current probes, test leads, and adapters supplied with equipment.
- Remove unnecessary voltage leads or accessories that are not in use.
- Make sure the power monitor is properly connected through the power cord to protective earth ground.
- Do not insert foreign objects into connectors, only use approved accessories.
- Never open the equipment, there are no customer replaceable parts.
- Never use equipment outside or when condensing water is present.
- Use proper lockout procedures on circuits under test.
- Hands, boots and the working area must be dry when making connections to power system.
- Do not operate the equipment or probes around volatile gas or vapor.

******* WARNING DO NOT EXCEED CAT RATINGS *******

Voltage Ratings:



Power Monitor	: CAT III - 600V	Pollution Degree 2
Rope CT's	: CAT III - 1000V	Pollution Degree 2
Clamp CT's	: CAT III - 600V	Pollution Degree 2
Wireless DC	: CAT II - 600V	Pollution Degree 2
Wireless DC w	: CAT III - 600V	Pollution Degree 2
Wireless DCx	: CAT II - 150V	Pollution Degree 2

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Introduction

The Rx Contorller / LB-View was designed with one function in mind, bringing usability and simplicity to the power testing market.

Throughout this documentation the Cx Monitor™ will be referred more simply as “Monitor”.

Throughout this documentation the Intelligent Load Bank will be referred more simply as “LoadBank”.

Some of the key features:

- **Software runs on any windows 10/11 PC as well as tablets (Windows 10 recommended)**
- **Up to 250 units in a Ethernet string**
- **Power Meter Integration**
- **Switch timings within 500mSec**
- **Voltage compensation based on power system levels**
- **Virtual groups within strings with different max power settings**
- **Automatic scripts with Run / Rewind / Restart**
- **Keeps running log of all LoadBank commands with time stamped that can be saved for later use**
- **Remote update of firmware**
- **Software:**

The packages used with the Cx Monitor adn Loadbank LB-View™, Live-View™ and U-View™ are free for life. They are written and developed at Rx Monitoring Services, Inc. and are constantly being improved.

Minimum PC requirements:

Win 11
i3-8130 CPU
4Gbytes Ram
80Mbytes Hard Disk
WiFi or ethernet port
Display: 1280x1080 resolution Min

WiFi Adapters from GL.inet

Recommended routers



The GL.iNet routers are recommended they run the openWRT router software. This software is open source and very stable for production use.

There are multiple versions: RxMS recommends
GL-AR300M16

UPS Recommendations

UPS: Use for best uninterrupted connection



CyberPower SL700U Standby UPS
System, 700VA/370W, 8 Outlets, Slim
Profile, Black

This UPS will keep hardware up for 1-2 hours.

Ethernet Cord Recommendations

CAT6 has the best shielding:



Maintenance Mode

Click Lock to enter Maintenance mode

Password: MAINT

LB-View 2026-08-19
⌵ ⌵ ⌵

Refresh Networks

192.168.0.8 Ethernet

CONNECT

SCAN NETWORK

Manual Add

Remove

Name: Ethernet
 Description: Intel(R) Ethernet Connection (14) I219-LM
 Type: Ethernet
 MAC: 008E4C8D335A
 IP: 192.168.0.8
 Mask: 255.255.255.0

Maintenance

Locate Unit

BuildCode:
2026-08-19T19:41:14.0000000Z

Supports:
 UI: 1.1.23
 Firmware K64: 1.1.23
 Firmware RT1024: 2.0.11
 Firmware RT1024-G: 4.0.1

(protocol/network address/port) is normally permitted at System.Net.Sockets.Socket.DoBind(EndPoint Snapshot, SocketAddress socketAddress) at System.Net.Sockets.Socket.Bind(EndPoint localEP) at LoadBankUI.ModbusServer.ModbusTCPServer.StartListenSocket()

12:35:22: SEARCH :: UDP Discovering IP Addresses

12:35:22: 192.168.0.80 Connected as Loadbank[iLB]

12:35:22: 192.168.0.86 Connected as Loadbank[iLB]

12:35:22: 192.168.0.106 Connected as Loadbank[iLB]

12:35:22: 192.168.0.88 Connected as Loadbank[iLB]

12:35:22: 192.168.0.100 Connected as Loadbank[iLB]

12:35:22: 192.168.0.111 Connected as Loadbank[iLB]

12:35:23:
Discovery finished in 1.315 seconds
Found 6 new Loadbanks, for total=9

IPAddress	MAC	Model	Serial#	Version
▶ 192.168.0.106	0250C2B90737	LC20_720KW_480V	LB02341	2.0.12y Aug 12 2026 16:56:45

Export PC Logs

Export LB Logs

Dashboard

Total Power:
10 kW

Total Loadbanks: 1 Connected

LB-View 2026-08-19

Close Date: 2026-08-20 16:51:54

Relay Counts

Get Clear All

Program Model and Serial#

Browse Load Reboot

C:\Users\c... Desktop\Data\LoadBankUIBeta\F

CPU:

Build:

IP: 192.168.106 => Connected
LC20_720KW_480V
MAC: 02:50:C2:B9:07:37 => [Gen7]
[LC20_720KW_480V] LB02341
Version: 2.0.12y Aug 12 2026 16:56:45
BL Version: 1.00 Aug 15 2023 13:43:47
VRMS/IRMS: 20.00/288.68

Logging

Meter And System

Controls Hot/Cold Test Test Mode: Off

Control State: Off On

Blowers State: -? Off On

Test Mode State: Off On

Dashboard

Alarms OK Tap for info

5.00 kW 6 A	10.00 kW 12 A	15.00 kW 18 A	30.00 kW 36 A
60.00 kW 72 A	120.00 kW 144 A	120.00 kW 144 A	120.00 kW 144 A
120.00 kW 144 A	120.00 kW 144 A		

Relay Counts

9958	C01
9408	C02
18077	C03
9303	C04
9258	C05
9465	C06
9689	C07
9772	C08
9676	C09
9329	C10
15	C11
10	C12
10	C13
8	C14
0	C15
0	C16

Test Mode Liquid Cooled Loadbanks Only

Test Mode gives the ability to disable the requirement for flow on a Liquid Cooled Loadbank.

To use:

LB-View Version must be 1.1.24 or higher.
Loadbank firmware must be 2.0.12 or higher

Test Mode is activated by unlocking the "Maintenance Mode" (See above)

Click Control State -> On

Click Test Mode -> On

The loadbank will enter Test Mode, temporarily disabling the Flow meter requirement.

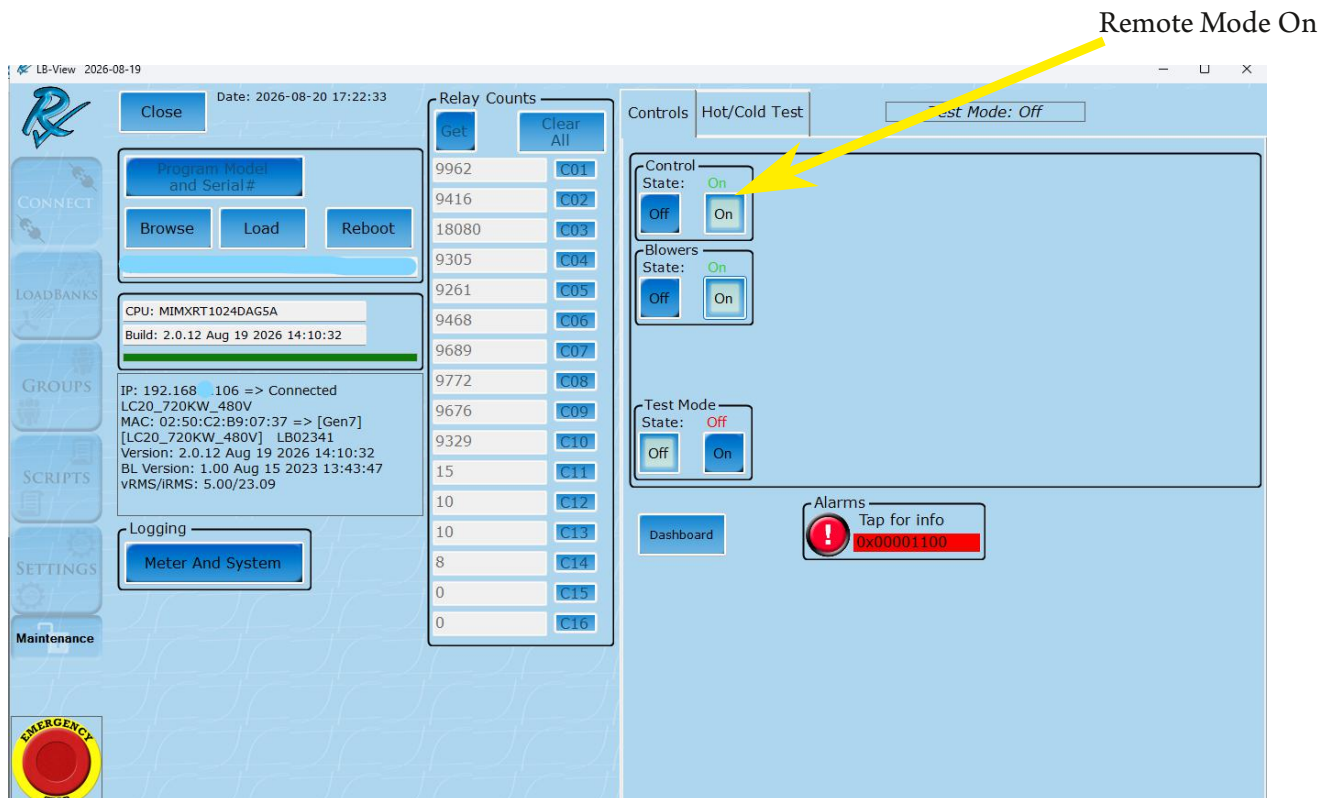
The loadbank will now have a requirement that the bus voltage is less then 50V. Any voltage over this will cause a "Overvoltage Alarm"

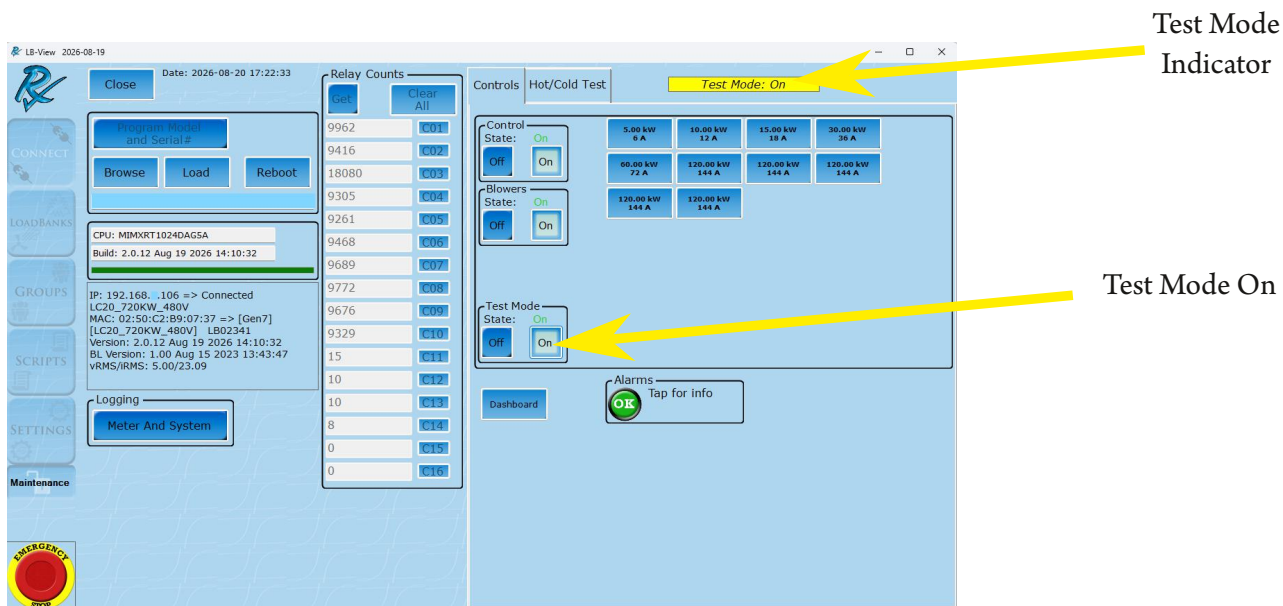
How to exit Test mode:

- 1.) Click Test Mode Off
- 2.) Reboot system (Any restart reverts to normal operation)
- 3.) Turn off Remote control mode

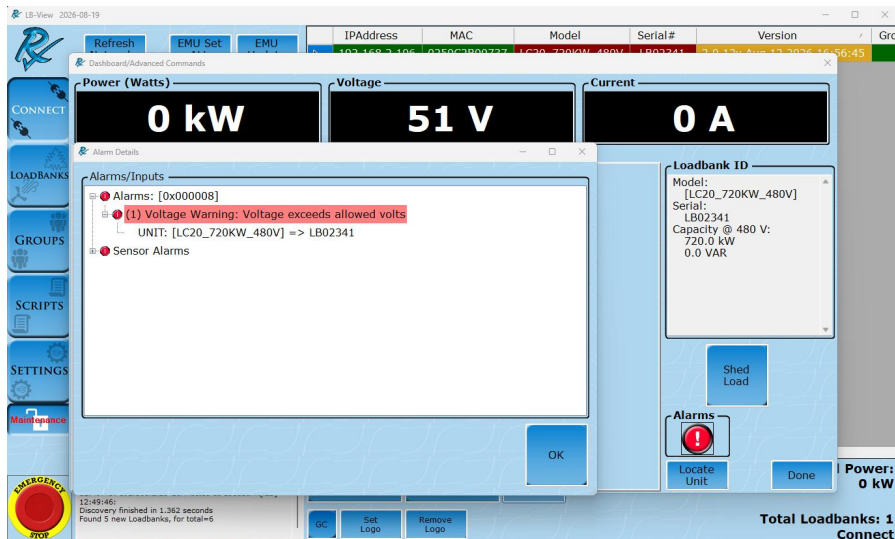
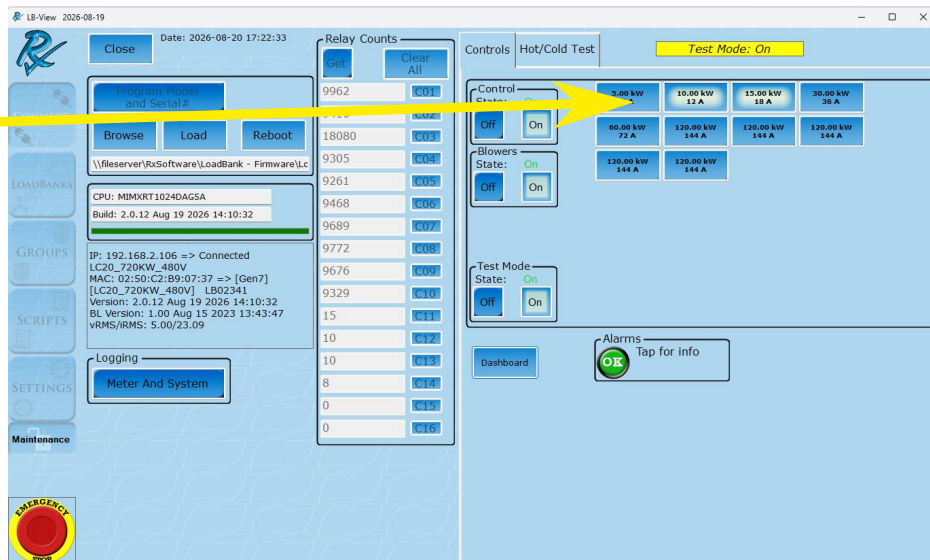
Changes from Normal Loadbank operation:

- 1.) Liquid Flow requirement removed
- 2.) Overvoltage threshold changed to 50V
- 3.) Only works in remote mode, local mode does not operate in this mode





Switches are now available



Overvoltage error will occur if voltage is on bus

Cold Test - 3 Phase OhmMeter

See Document " Ohm Meter Usage Guide"

Two versions of the OHM Meter exist see picture below for identification.

Version 1



Version 2



Hot Test

Failure Error Ranges:

There are two types of tests performed on both the cold test and the hot test.

Ohm Balance Error %: This is the resistive "balance" between the three readings. This compares the average of the three ohm readings to each reading.

A-B = 10 Ohm

B-C = 10 Ohm

C-A = 10 Ohm

Average = $(10+10+10) / 3 = 10\text{Ohm} * (.1 (10\%)) = 1 \text{ Ohm error allowed}$

Allowable range = 9 Ohm - 11 Ohm

Total Watt Error %: This is the calculated total power for the step to ensure balanced resistors will hit the required output value.

The screenshot displays the Loadbank Control System interface. On the left, there are navigation buttons for CONNECT, LOADBANKS, GROUPS, SCRIPTS, and SETTINGS. The main area shows test results for a 3-phase Ohm test. The 'Cold Test' section shows a meter reading of 192.168.2.34. The 'Hot Test' section shows resistance and current readings for phases A-B, B-C, and C-A, all of which are 'Open'. The 'Run Cold Test' and 'Run Hot Test' buttons are visible. The bottom right shows a summary of test results, including 'Total: 64, Passed: 64, Failed: 0' and 'Test took: 00:00:25.2238884'.

Select load steps to run:

If the voltage mode is correct for the sensed input voltage (On Bus) The available steps will be displayed and selectable.

Click the steps you want to test as well as the settings for the test.

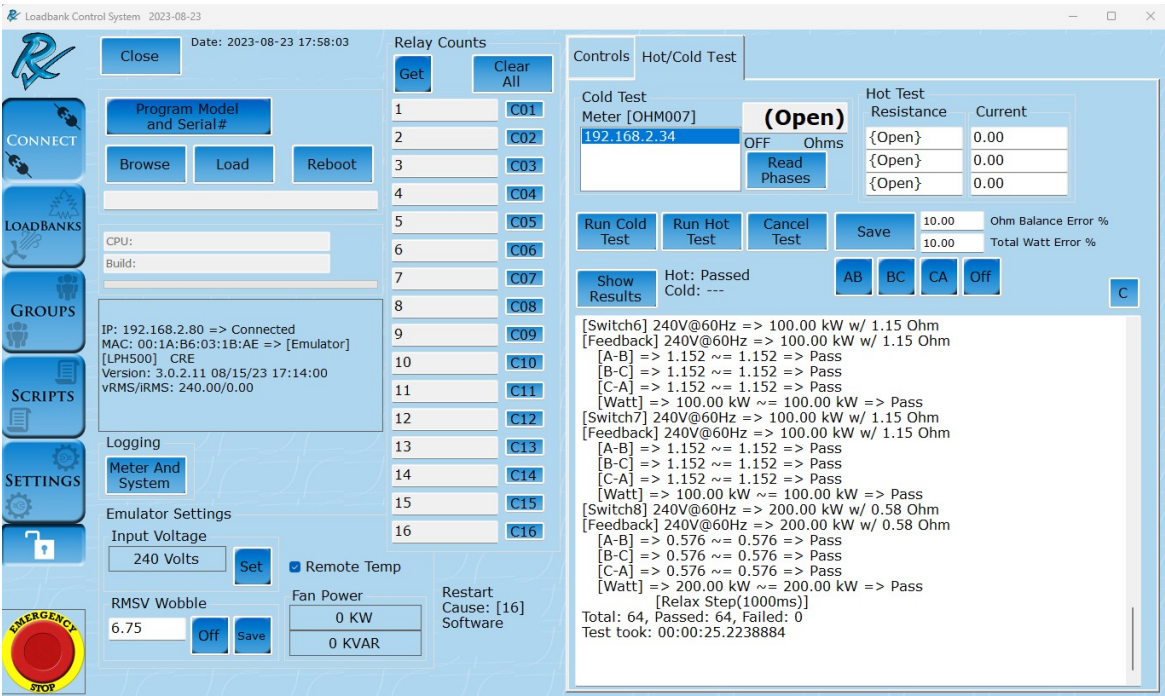
Halt on failure: Stops all tests if a step fails

Retries before fail: How many times the step will be tested before "failed" status

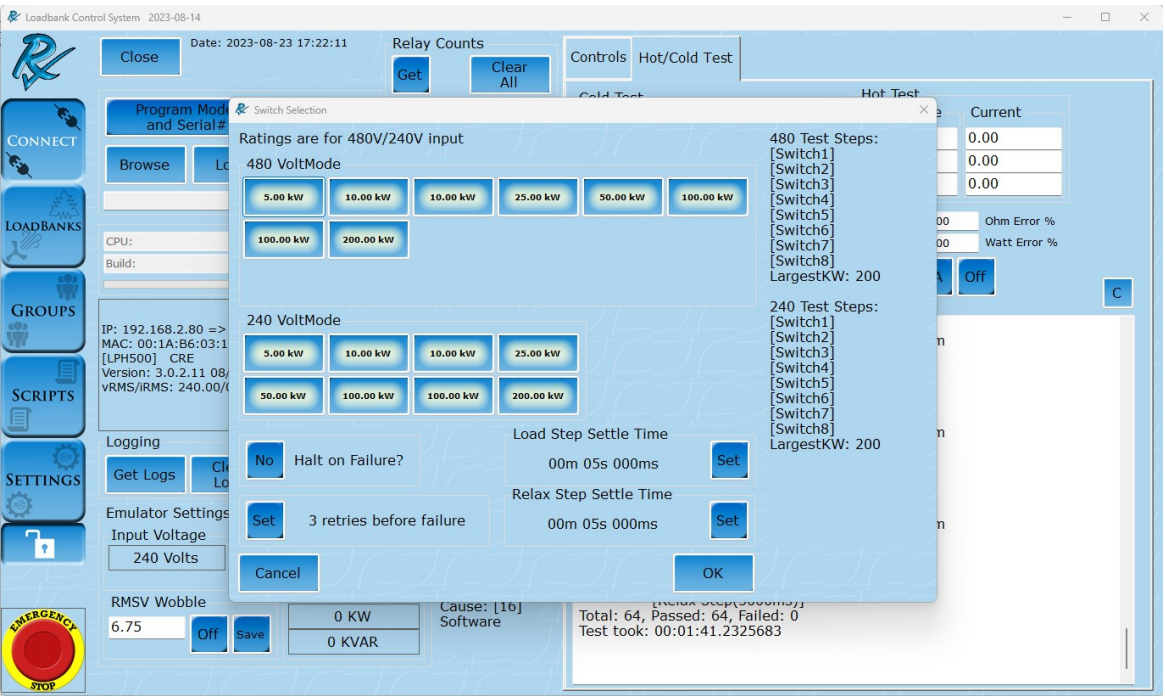
Load Step Settle Time: Time after step engaged till reading is taken (Power Meter Settle time)

Relax Settle Time: Time between steps

480V on bus



240V on bus



Save / Output:

You can view the output in the text box below the Run buttons (example below for 2 switches 240 / 480V mode)
Click the Save button to store it locally or to a network.

Model under test

Hot Test for [CRE (00:1A:B6:03:1B:AE)]
Test Date: 8/23/2023 3:32:59 PM
Resistance Balance Error Allowed: 10% Error % put in the main screen
Total Watt Error Allowed: 10%
No loads Wait: 00m 01s
Loads Wait: 00m 01s
Offset => [Amps: 0 / 0 / 0], [0.000W] Offset is calculated for the FAN operation
[Position] => [Measured] ~= [Expected] => [Grade]
[Relax Step(1000ms)]
[Switch1] 480V@60Hz => 5.00 kW w/ 92.16 Ohm Name plate switch value
[Feedback] 240V@60Hz => 1.25 kW w/ 92.16 Ohm De-rated value based on input voltage
[A-B] => 92.16 ~= 92.16 => Pass Per Leg readings
[B-C] => 92.16 ~= 92.16 => Pass
[C-A] => 92.16 ~= 92.16 => Pass
[Watt] => 5.00 kW ~= 5.00 kW => Pass Total KW for the step
[Switch8] 480V@60Hz => 200.00 kW w/ 2.30 Ohm
[Feedback] 240V@60Hz => 50.00 kW w/ 2.30 Ohm
[A-B] => 2.304 ~= 2.304 => Pass
[B-C] => 2.304 ~= 2.304 => Pass
[C-A] => 2.304 ~= 2.304 => Pass
[Watt] => 200.00 kW ~= 200.00 kW => Pass
[Relax Step(1000ms)]
[Switch1] 240V@60Hz => 5.00 kW w/ 23.04 Ohm
[Feedback] 240V@60Hz => 5.00 kW w/ 23.04 Ohm
[A-B] => 23.04 ~= 23.04 => Pass
[B-C] => 23.04 ~= 23.04 => Pass
[C-A] => 23.04 ~= 23.04 => Pass
[Watt] => 5.00 kW ~= 5.00 kW => Pass
[Switch8] 240V@60Hz => 200.00 kW w/ 0.58 Ohm
[Feedback] 240V@60Hz => 200.00 kW w/ 0.58 Ohm
[A-B] => 0.576 ~= 0.576 => Pass
[B-C] => 0.576 ~= 0.576 => Pass
[C-A] => 0.576 ~= 0.576 => Pass
[Watt] => 200.00 kW ~= 200.00 kW => Pass
[Relax Step(1000ms)]
Total: 16, Passed: 16, Failed: 0
Test took: 00:00:13.1045537 Total test output summary

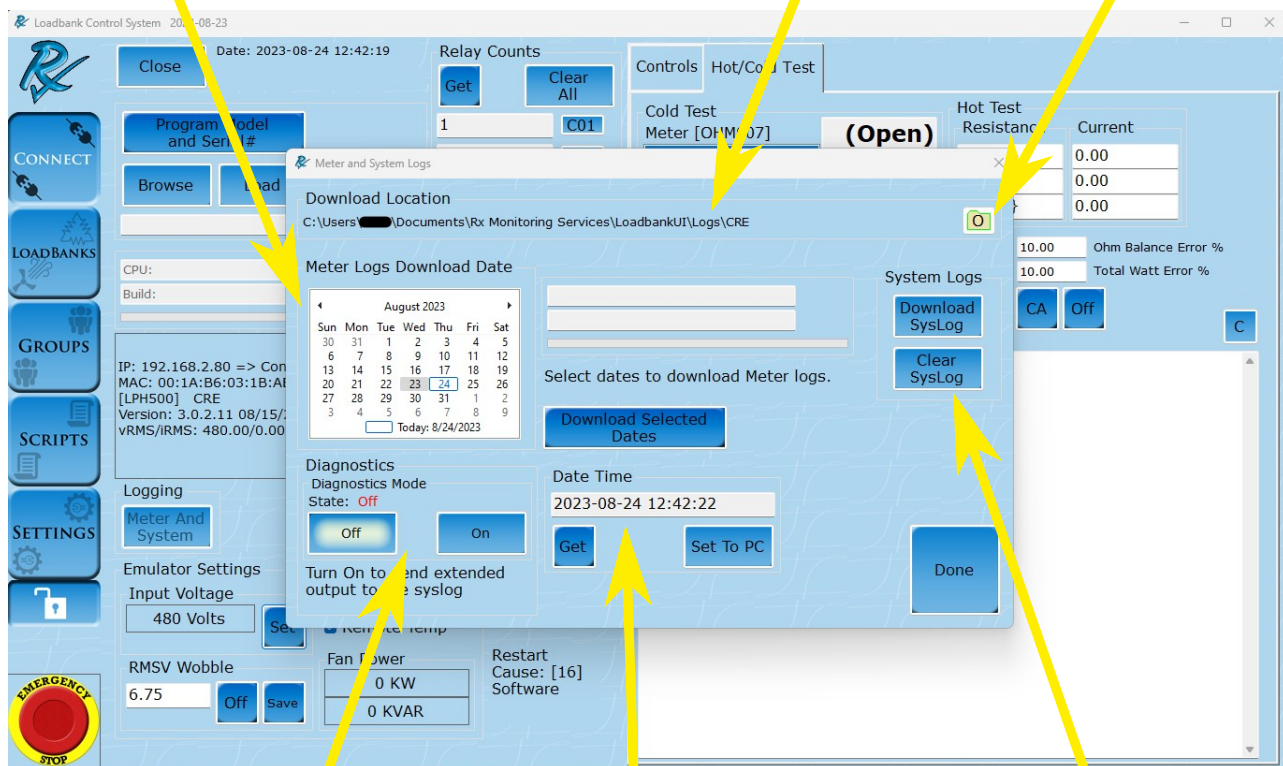
Syslog and Meter log download

Meter logs are only available on the Gen3 Boards (1100-10166-xx)

Location is added to folder by the E-Code / Serial number

Downloads are selectable by data range. Select range before downloading.

Open folder location in file explorer



Diagnostics increases the debug output to the Syslog locally and to the network based syslog (Settings -> Syslog)

Set and get the real time clock for the logging.

Syslog will download the events that the loadbank has seen including alarms and powerup / downs.

Each Syslog download makes a new file based on the time it was downloaded.

IE:

SysLog_20230824_100637.txt

SysLog_year Month Date_Time.txt

This is a typical output from the syslog

Note: All times are in UTC, you will need to convert to the local time.

```
[CALL_IS_OK] 1/1/1970 12:00:27 AM ::: ALARM - Meter Comms Fault Set
[CALL_IS_OK] 1/1/1970 12:00:57 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:20 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:35 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:47 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:51 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:50 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:33 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:12 AM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.0.4 Aug 1 2017 15:40:00
[CALL_IS_OK] 1/1/1970 12:00:27 AM ::: ALARM - Meter Comms Fault Set
[CALL_IS_OK] 11/12/2018 5:14:23 PM ::: Relay Counts Cleared.
[CALL_IS_OK] 11/12/2018 5:20:16 PM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.1.4 Oct 16 2018 10:05:07
[CALL_IS_OK] 1/1/1970 12:00:28 AM ::: ALARM - Meter Comms Fault Set
[CALL_IS_OK] 11/12/2018 10:13:53 PM ::: Shutting down.
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: ***** Start *****
[CALL_IS_OK] 1/1/1970 12:00:00 AM ::: Version: 1.1.4 Oct 16 2018 10:05:07
[CALL_IS_OK] 1/1/1970 12:00:28 AM ::: ALARM - Meter Comms Fault Set
```

Start time will always be
1/1/1970

If attached to a PC after
boot, time will be set and
shutdown time will be the
correct UTC time.

As of version 1.1.18 the loadbank controller support the Sigma Gateway Protocol: Modbus TCP

This enables the loadbank to operate without the software controller.
See Avtrons gateway documentation for details:

The connection is via the Ethernet RJ45 connector.

The Modbus TCP server is available on port 502, it will currently respond to any 'Unit identifier' address value.

Modbus is an industry-wide serial communications protocol standard supported by many PLC and industrial controls manufacturers. A Modbus network has one server and one or more clients, in this system the Sigma Gateway is the server. For more information on Modbus protocol refer to the Modbus Protocol Reference Guide, available from the www.modbus.org website.

<https://avtronpower.com/load-banks/load-bank-control/sigma-gateway/>

WARNING

The Modbus/TCP protocol is inherently unsecure and therefore should be used with care to avoid sensitive information disclosure and unauthorized access. To mitigate the risks associated with weaknesses in the Modbus/TCP protocol, users should set up network segmentation and implement a firewall to block all unauthorized access.

Change Logo

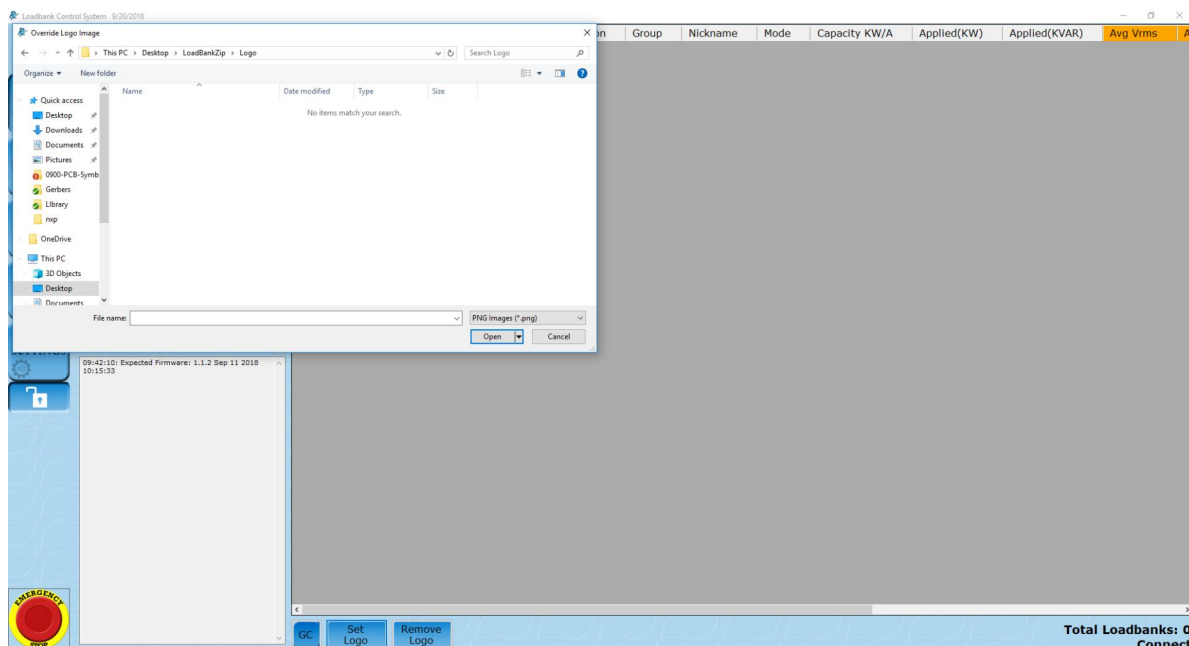
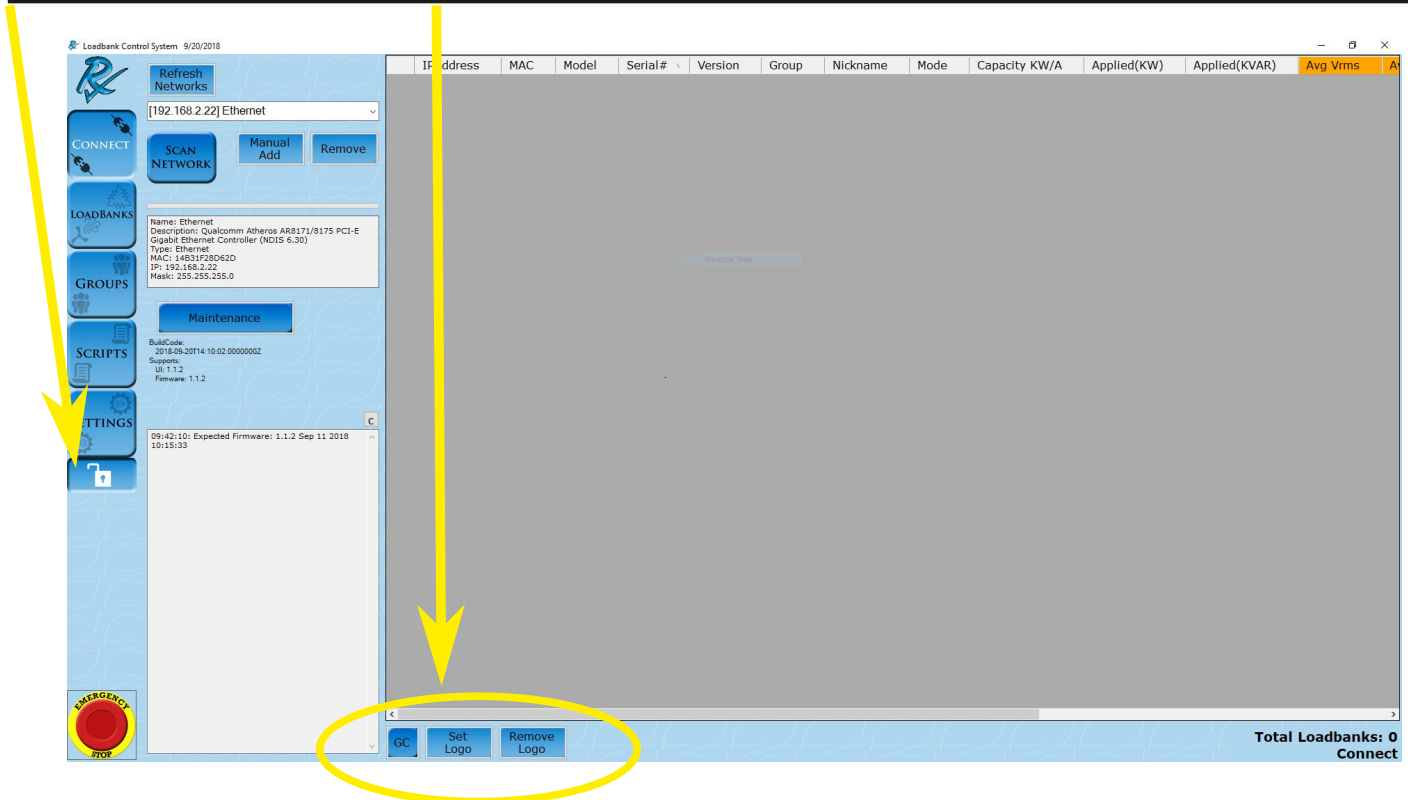
The loadbank software can be customized with your company logo. The ideal way to do this is login as a admin on the computer. (Newer Windows security requires that only an Admin can change)

Unlock the software by clicking the lock on the left bar.

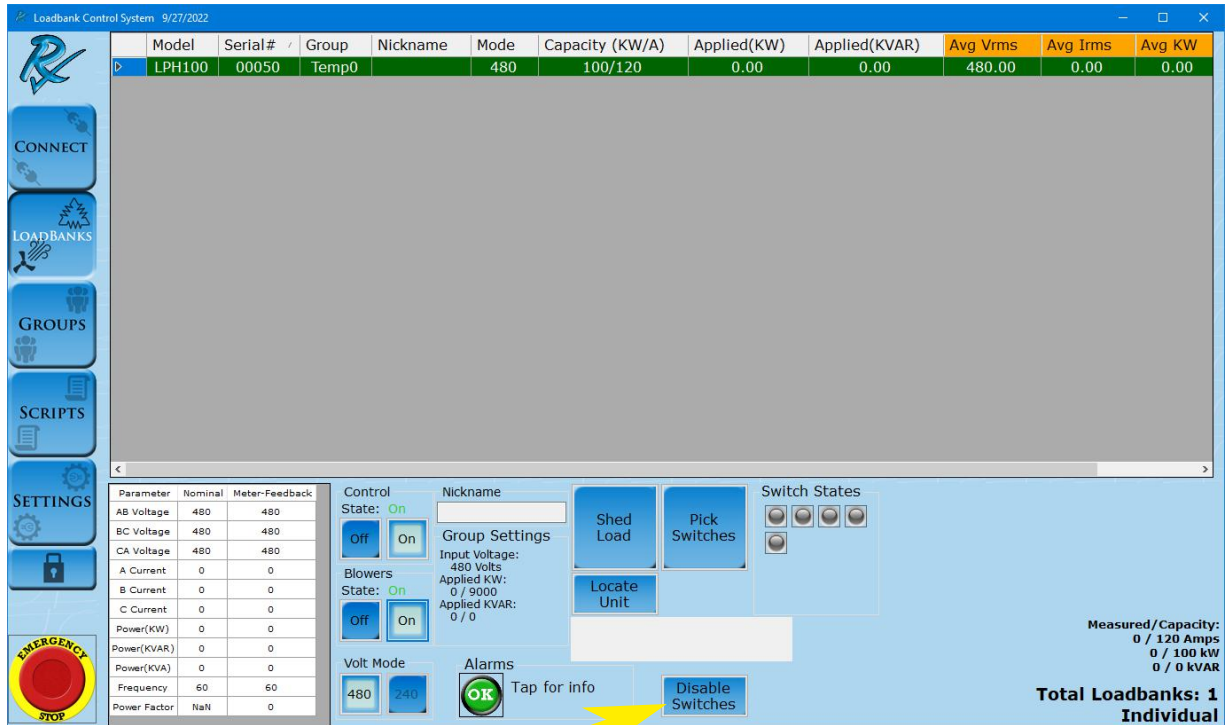
On the **Connect** Screen click the "**Set Logo**" on the bottom of the page (See picture) Highlight the .png file that you would like to use and click "**Open**"

Remove Logo will default to the RxMS logo.

The Logo ideal size 100 x 70 pixels. The software will try to scale the picture appropriately.



Disable Individual Switches



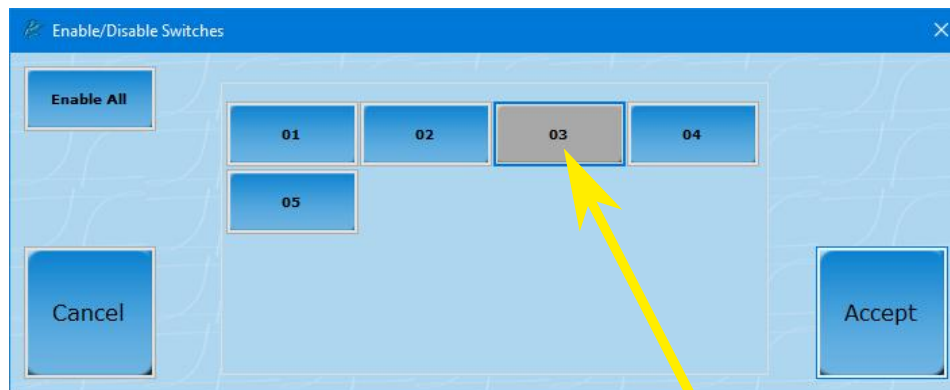
Requires a password "power" (This is for customer use) each time unless in maintenance mode.

Disable Switches

Switch is disabled for all Volt Modes/Tap Positions.

Only disabled for THAT instance of the UI software.

Does not stay with loadbank and if the UI closes for any reason you need to disable it again.



Grey means disabled - Click Accept to return to loadbank screen.

LED Operation:

No ethernet hardware connections = **LED's ON**

Phy connection (Ethernet cord and connecting switch works) **LED off & blinking during communications**

Leds should be on when powered up. If not then the board is not getting 120V power. Or something is wrong with the 120Vac power supply or on board UPS.



If leds do not turn on, check this 3.15A fuse. 120V should be on both sides.

If voltage is present, board will need to be returned.

If on board LEDS are blinking, switch is working on board.

The microcontroller should can be confirmed working by 12V LED (External) blinking when DHCP server found.

Below are the alarms that can be listed in the Syslog as well as the on board memory.

Highlighted Alarms in red are board hardware issues and should be reported to RxMS.

"ALARM - Blower Alarm Set"

"ALARM - Blower Alarm Cleared"

"ALARM - Over Temperature Set"

"ALARM - Over Temperature Cleared"

"ALARM - Louvers Fault Set"

"ALARM - Louvers Fault Cleared"

"ALARM - General Failure Fault Set"

"ALARM - General Failure Fault Cleared"

"ALARM - Container Over Temp Fault Set"

"ALARM - Container Over Temp Fault Cleared"

"ALARM - Reactor Over Temp Fault Set"

"ALARM - Reactor Over Temp Fault Cleared"

"ALARM - On Board Over Temperature Set"

"ALARM - On Board Over Temperature Cleared"

"480 Mode Change."

"240 Mode Change."

"ALARM - Fan Motor Fail Set"

"ALARM - Fan Motor Fail Cleared"

"ALARM - Voltage Fault Set"

"ALARM - Voltage Fault Cleared"

"ALARM - Air Flow Fault Set"

"ALARM - Air Flow Fault Cleared"

"ALARM - Manual Mode Fault Set"

"ALARM - Manual Mode Fault Cleared"

"ALARM - Meter Comms Fault Set"

"ALARM - Meter Comms Fault Cleared"

"RTC Time Set."

"System Logs Cleared."

"Relay Counts Cleared."

"MeterLogs Clear Start."

"MeterLogs Clear Complete."

***** Start *****

"Shutting down."

***** WDOG Recovery *****

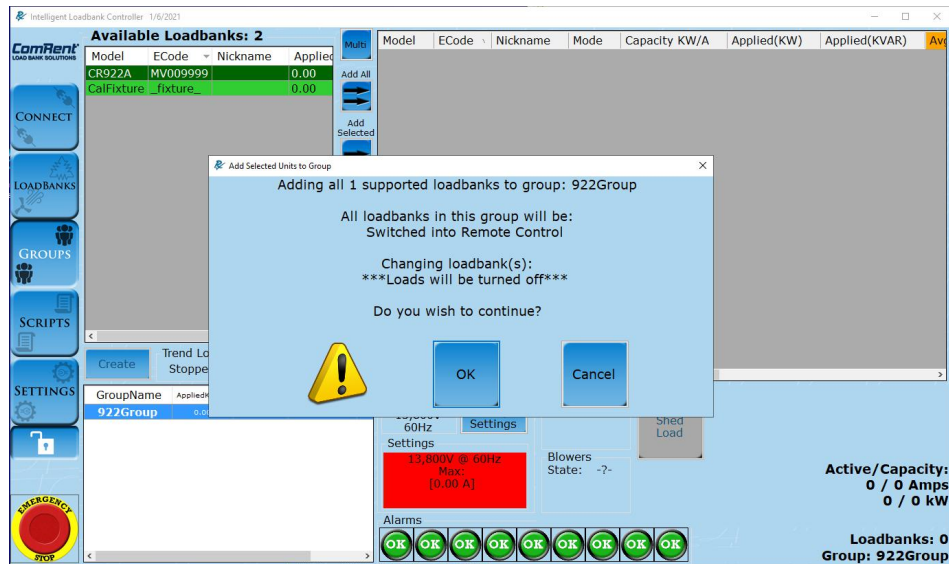
"Version: #.#.##"

"SPIIntReadRelays io value mismatch"

"SPIIntVerifyRelays relay states do not match outputs: 0xHHHH 0xHHHH"

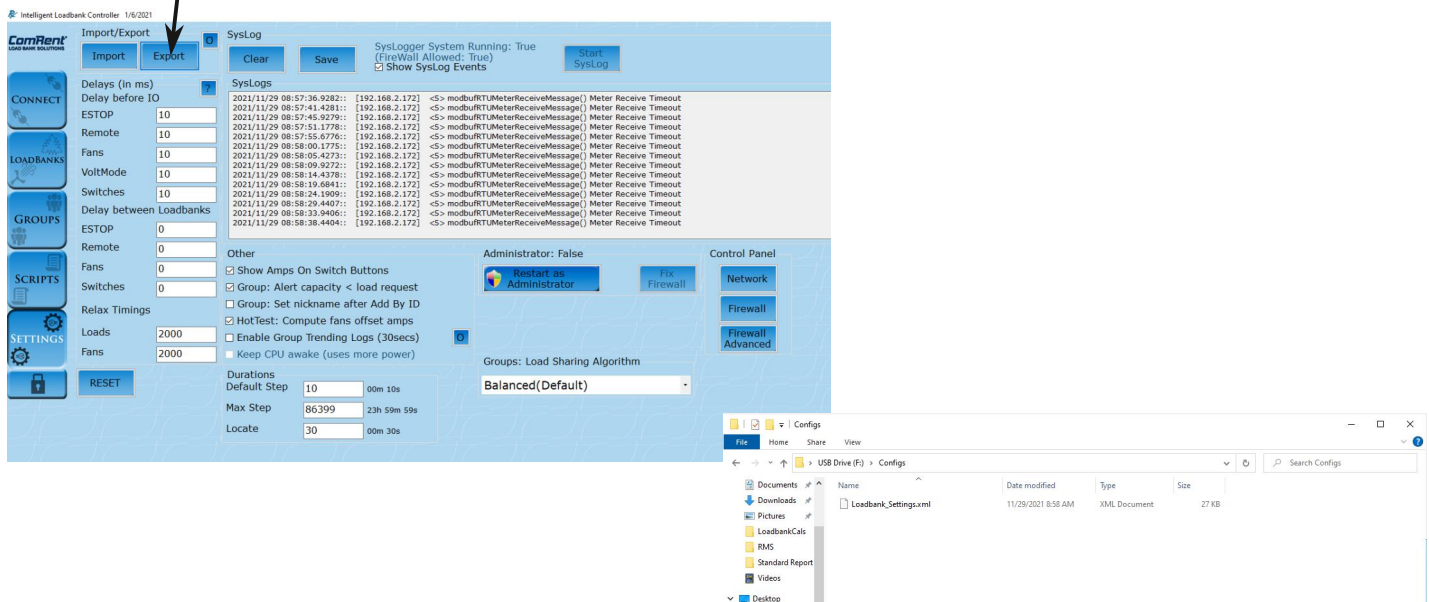
Export Configuration (Swap Controller)

Because of the amount of settings that are stored in a group. Swapping a controller can not be done by making a new group on a second tablet and putting the load banks in that group. (This would cause a load shed while adding loadbanks to the group) See warning below.



To swap a controller and all of the settings (without changing anything on the loadbanks) follow the steps below.

- 1.) On the first tablet: Go to **Settings -> Export**
- 2.) Save the **Loadbank_Settings.xml** to a USB stick to move to the second tablet.



- 3.) On the (new) **Second Tablet** : Attach and Scan the network to find loadbanks.
- 4.) Go to **Settings -> Import**
- 5.) Explore to the **Loadbank_Settings.xml** on the USB stick. Click Open.
- 6.) All settings are now copied to the second tablet with no changes to the loadbanks.

The settings are also automatically saved at the location whenever something is changed:

C:\Users\{current user}\Documents\Rx Monitoring Services\LoadbankUI\AutoSave.xml