

URC-1 CONFIGURATION UTILITY INSTALLATION AND OPERATING GUIDE  
09-30-2009



---

# TABLE OF CONTENTS

<b>TABLE OF CONTENTS</b> .....	2
<b>INSTALL, RUN, &amp; CONFIGURE UTILITY (FIRST USE)</b> .....	4
COMMUNICATING WITH A URC-1 THROUGH THE USB PORT.....	4
START URC-1 CONFIGURATION UTILITY.....	5
STRUCTURE.....	5
MENU.....	5
BUTTONS.....	5
TABS.....	6
COMMUNICATING WITH A URC-1 THROUGH THE USB PORT.....	6
<b>MENU</b> .....	7
FILE.....	7
<i>Open</i> .....	7
<i>Save</i> .....	8
<i>Save All Items</i> .....	8
<i>Export to Excel</i> .....	8
<i>Export Page To Excel</i> .....	8
<i>Save Min/Max</i> .....	9
<i>Save Min/Max As</i> .....	9
<i>Open Min/Max</i> .....	9
<i>Print Current Page</i> .....	9
<i>Print</i> .....	10
<i>Exit</i> .....	10
CHECK ALL.....	10
CLEAR CHECKS.....	10
RELOAD FACTORY SETTINGS.....	10
CHECKBOX INFORMATION.....	10
VERSION.....	11
<b>BUTTONS</b> .....	12
READ DATA CURRENT PAGE.....	12
READ ALL DATA.....	12
WRITE DATA CURRENT PAGE.....	12
WRITE ALL DATA.....	12
COM PORT.....	12
CLOSE.....	12
<b>TABS</b> .....	13
OVERVIEW.....	13
<b>CURVES TAB</b> .....	14
INTRODUCTION.....	14
BUTTON BAR.....	14
<i>Open</i> .....	14
<i>Save</i> .....	15
<i>Library</i> .....	15

---

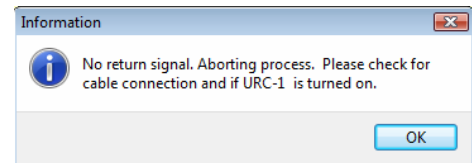
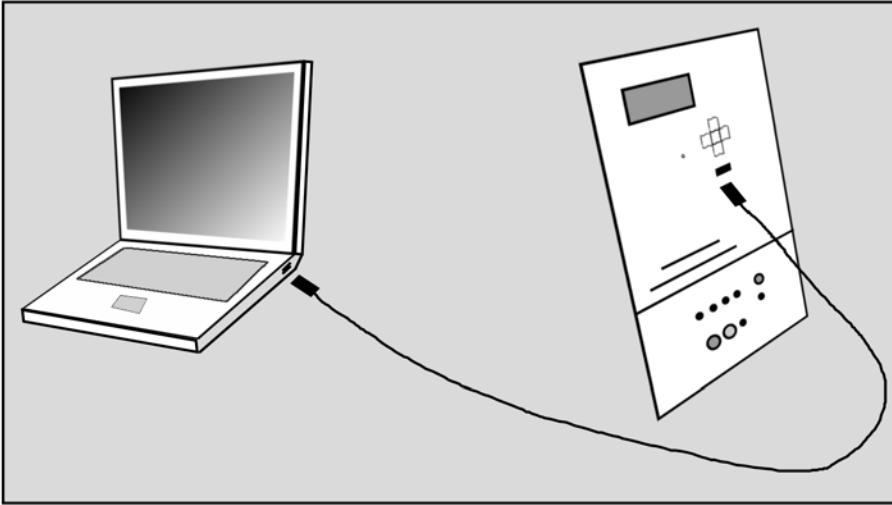
<i>Group Library</i> .....	15
<i>Print</i> .....	16
<i>New Curve</i> .....	16
<b>EXAMPLE CONFIGURATION</b> .....	<b>17</b>
INTRODUCTION .....	17
GETTING STARTED .....	17
CONFIGURATION TAB.....	19
<i>Control</i> .....	19
<i>Recloser</i> .....	19
BASIC PARAMETERS TAB.....	19
<i>Minimum Trip</i> .....	19
<i>Reclose Interval/Reset Time</i> .....	20
<i>Operations to Lockout</i> .....	20
<i>Cold Load Pickup</i> .....	20
<i>Sensitive Earth/Ground</i> .....	21
ADVANCED PARAMETERS TAB.....	23
<i>High Current Lockout</i> .....	23
<i>General</i> .....	24
METERING COUNTERS TAB .....	24
<i>Max Demand Currents</i> .....	24
<b>TIPS &amp; TRICKS</b> .....	<b>27</b>

---

# INSTALL, RUN, & CONFIGURE UTILITY (First Use)

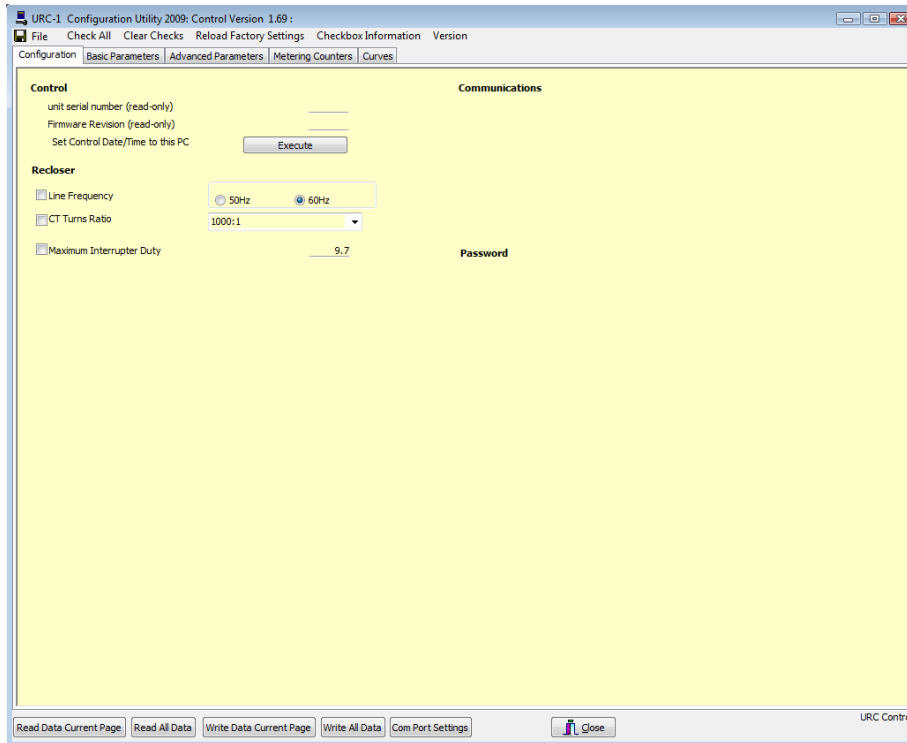
## COMMUNICATING WITH A URC-1 THROUGH THE USB PORT

*CONNECT USB CABLE FROM COMPUTER TO THE URC-1*



---

# OVERVIEW



## Start URC-1 Configuration Utility

If The URC-1 configuration utility is not already running on your computer start it now. Select the correct URC-1 version number and click “OK”. With the URC-1 Configuration running you should see a window similar to the one pictured above. In the upper left portion of the window ‘URC-1 Configuration Utility’, the utility version (Year), and the URC-1 version (selected when configuration was started). The lower right portion will display ‘URC Control’.

## Structure

The URC-1 window structure is divided into three main categories. In this manual these categories are referred to as ‘MENU’, ‘BUTTON’ and ‘TAB’.

## Menu

The Menu is located at the top of the window and consists of the following categories. File, Check All, Reload Factory Settings, Checkbox Information, & Version. See the section titled “MENU” for further details.

## Buttons

The Buttons are located at the bottom of the window and consist of the following. Read Data Current Page, Read All Data, Write Data Current Page, Write All Data, Com Port Settings, & Close. See the section titled “BUTTONS” for further details.

---

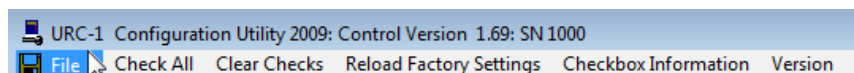
**Tabs**

The Tabs Are located Beneath the Menu. By pressing on a tab, the page that is associated with that tab will be displayed. These Tabs (or pages) consist of data and settings of the URC-1. The following is a list of the Tabs. Configuration, Basic Parameters, Advanced Parameters, Metering/Counters, & Curves. See the section titled “TABS” for further details.

**COMMUNICATING WITH A URC-1 THROUGH THE USB PORT**

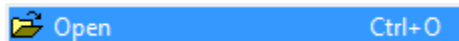
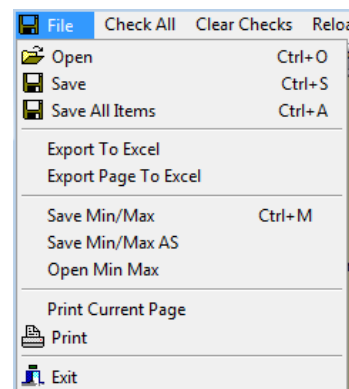
---

# MENU



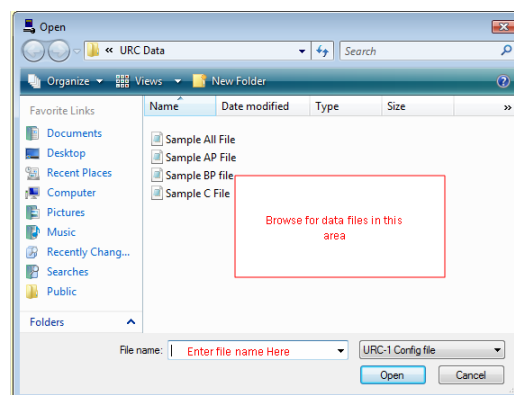
## File

The first Heading in the menu is **File**. When selected it opens the File Menu. The File Menu is used to perform a variety of functions such as opening, saving, exporting, and printing various URC-1 related files. This section details how to use each function in the File Menu. See sample screen at right for a listing of the file menu functions.



## Open

The first item under the File menu is **Open**. **Open** is used to open a previously saved URC-1 configuration file. Once opened the file can be viewed, edited, then re-saved (see **SAVE** or **Save As**), or written to the URC-1 (See **Write Data Current Page** or **Write all Data** in the **BUTTONS** section). To open a file click on **Open** (under the file menu) then type in the file name that you wish to open then click the open button. You can also browse for the file and click to select then click the open button or just double click the file to open. See screen image at right.



Note: Before opening a file clear any check boxes for items that you wish to “read” from the file or click on clear all checks on the menu bar (see Clear Checks Pg. \_\_ in this section).

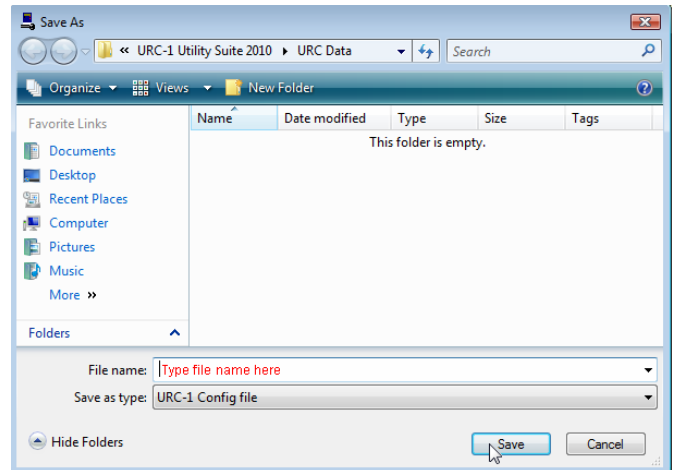
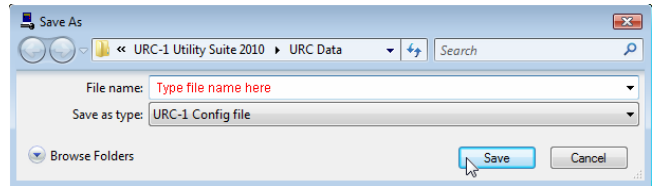
---



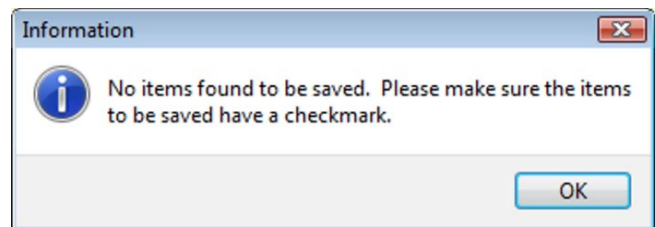
## Save

The second item under the File Menu is **Save**. **Save** is used to save a recently created or modified configuration file. The source of a modified file can either be opened from a file or downloaded from a control.

To save a file open the File Menu, click on **Save** type the file name then press the save button. You can also browse the folders for a save location by clicking on “Browse Folders”. See screen images at right.



Note: check any items that you wish to write to the saved file or click on “check all” before saving the file. If no items are checked the dialog shown at right will appear.



## Save All Items

**Save All Items** acts the same as **Save** except that all item checkboxes are automatically checked when this option is selected.

Export To Excel

## Export to Excel

**Export to Excel** when selected will open Excel and export all data to an Excel spreadsheet.

Export Page To Excel

## Export Page To Excel

**Export Page To Excel** when selected will open Excel and export the active tab (or page) to an Excel spreadsheet.

Save Min/Max

Ctrl+M

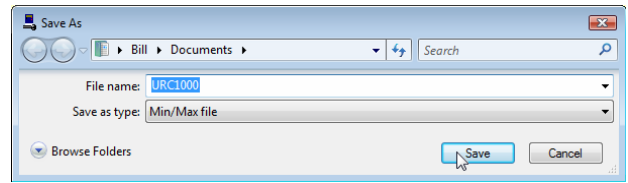
### Save Min/Max

**Save Min/Max** when selected will automatically create/append a Min/Max file called URC followed by the serial number of the control that is connected to the computer. For example: If the serial number of the URC-1 is “1234” the file would be named **URC1234**. This file can then be opened and reviewed at a later time (See **Open Min/Max**).

Save Min/Max AS

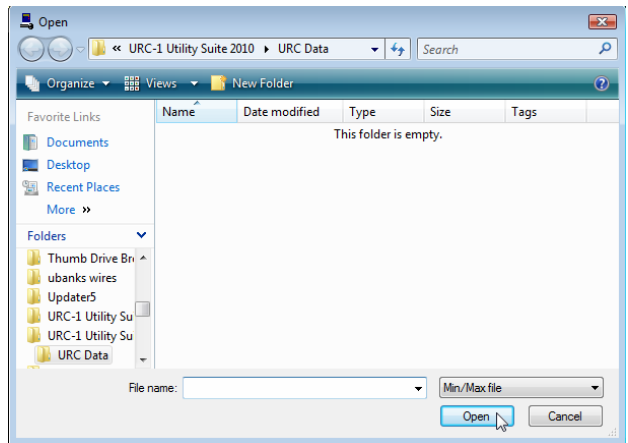
### Save Min/Max As

**Save Min/Max As** is similar to **Save Min/Max** except instead of automatically naming the file it will create/append a Min/Max file that is named by the user. For example: If you had already saved a file called “URC1234” in the data directory and did not want to append it you could give the file a new name or you could save it in another directory. This file could also be opened and reviewed at a later time (See **Open Min/Max**).



### Open Min/Max

**Open Min/Max** when selected is used to open a Min/Max file for review. To open a Min/Max file press **Open Min/Max** type in file name or browse for file. Then click the open button.

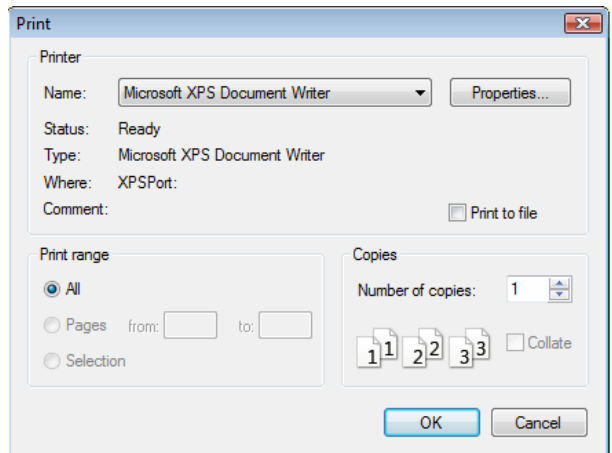


Print Current Page

### Print Current Page

**Print Current Page** when selected is used to print a report consisting of the data located in the active tab (or page) to hard copy for archival purposes or distribution.

To print the active tab press Print Current Page. Select the printer that you want to print to (if not already selected) type in number of copies to print (if more than one copy is desired) then press OK.





## Print

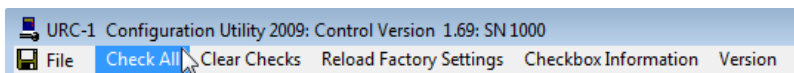
**Print** when selected is used to print a report consisting of the data located in every tab (or page) to hard copy for archival purposes or distribution.

To print the all tabs press Print. Select the printer that you want to print to (if not already selected) type in number of copies to print (if more than one copy is desired) then press OK.



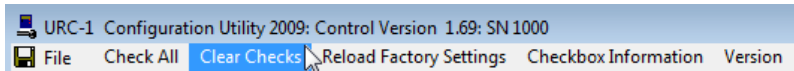
## Exit

**Exit** when selected will exit the URC-1 Configuration Utility.



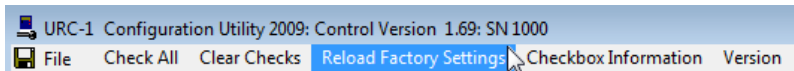
## Check All

By Clicking on **Check All**, all writeable item check boxes will be checked, indicating that all items will be written to when either saving to a file or writing to a control. Conversely when reading from a file or downloading from a control the checked items will be ignored and not overwritten by any data from the file or from the control.



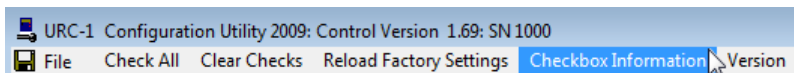
## Clear Checks

By clicking on **Clear Checks** all writable item check boxes will be cleared of check marks, overwritten with data from the file or data from the control. Conversely when writing to a file or to the control all settings will be ignored and not written.



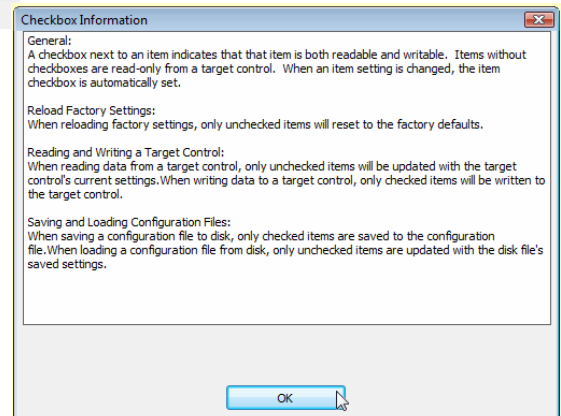
## Reload Factory Settings

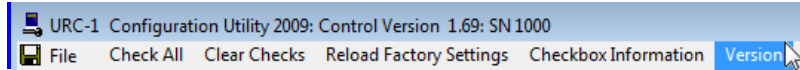
By clicking on **Reload Factory Settings** all unchecked data item will be overwritten by the factory default data. Any checked items will not be overwritten.



## Checkbox Information

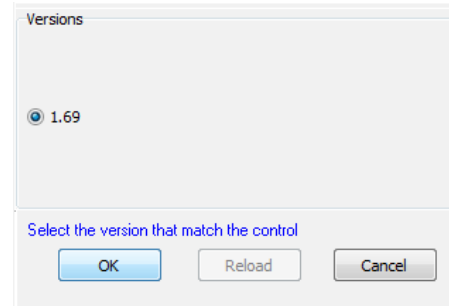
Clicking on **Checkbox Information** will open the checkbox information dialog box. See screen shot shown at right.





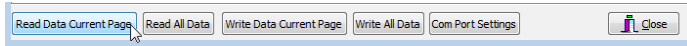
## Version

Clicking on **Version** will open the version selection box. The version selection box allows you to switch the URC-1 version this can be useful when working with multiple controls which have different versions of firmware installed.



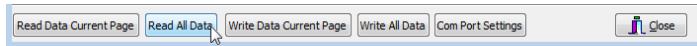
---

# BUTTONS



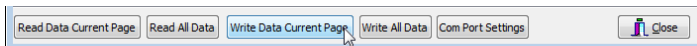
## Read Data Current Page

Pressing the **Read Data Current Page** button will read all control settings on the active Tab (or page) that does not have a check in its checkbox.



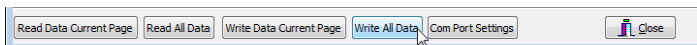
## Read All Data

Pressing the **Read All Data** button will read all control settings (all pages) that does not have a check in its checkbox.



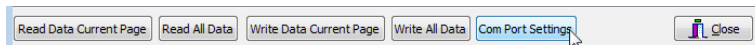
## Write Data Current Page

Pressing the **Write Data Current Page** button will write all settings on the active Tab (or page) to the control that has a check in its checkbox.



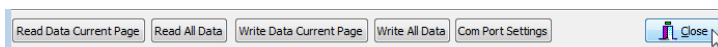
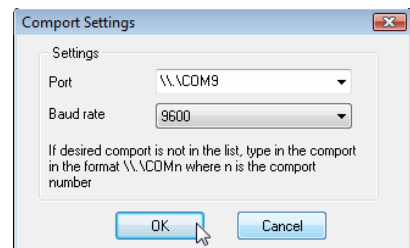
## Write All Data

Pressing the **Write All Data** button will write all control settings (all pages) to the control that has a check in its checkbox.



## Com Port

Pressing the **Com Port** Settings button will open the Comport settings box. The Comport settings box is used to select the com port that you will be using to communicate to the control. It is also used to set the Baud rate of the selected port.



## Close

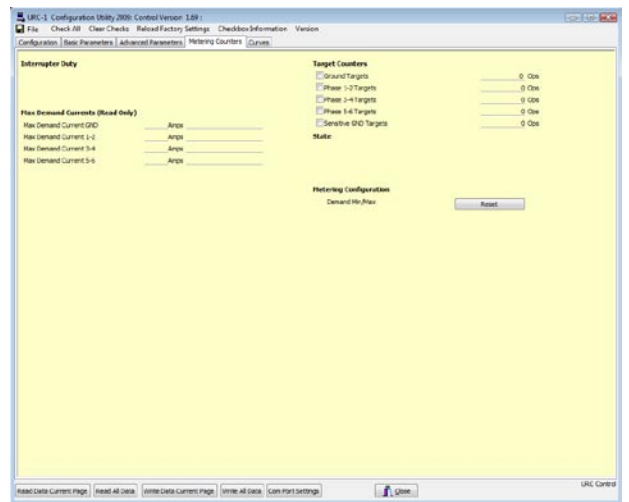
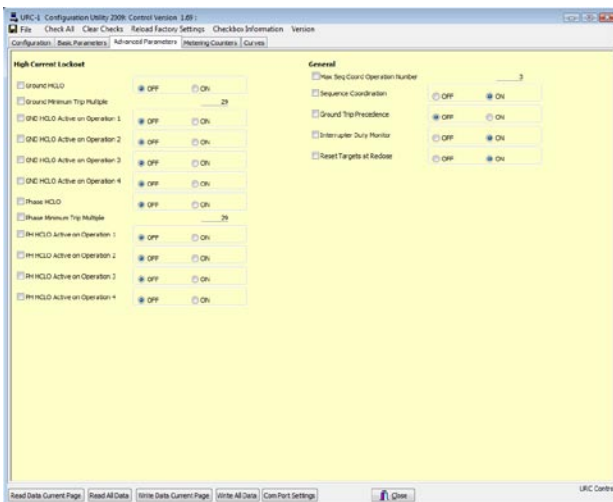
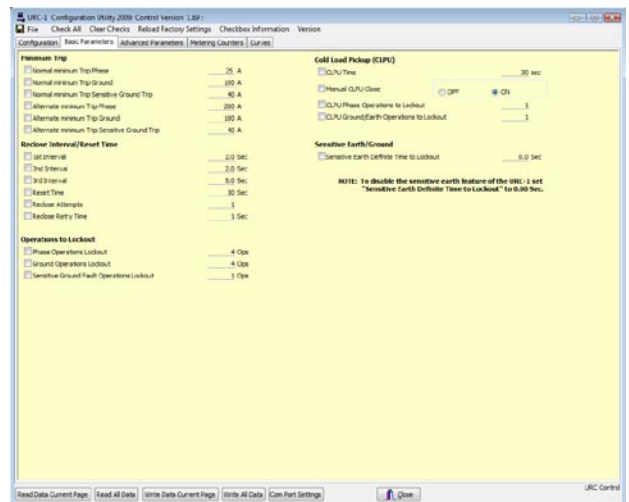
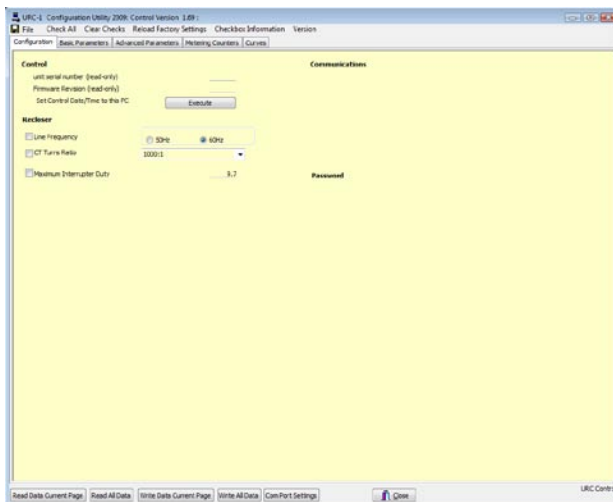
Pressing the close button will exit the URC-1 Configuration Utility.

---

# TABS

## Overview

The structure of the URC-1 configuration utility was designed to preserve the menu of the URC-1 as closely as possible. This structure consists of three levels (except the Curves tab; *See Curves tab for details*) Tabs, headings, and Data Items. The tabs on the URC-1 configuration utility closely resemble the menu (and are in the same order as) the headings of the URC-1 control menu (except the Curves tab; *See Curves tab for details*). The headings under each tab closely resemble (and are in the same order as) the USC-1 sub-menu headings (except headings under the curve tab; *See Curves tab for details*). The items under each heading of the configuration utility closely resemble (and are in the same order as) the individual data items of the USC-1. See below for a screenshot example of each tab. A detailed instruction for the Curves Tab will follow on the next page.

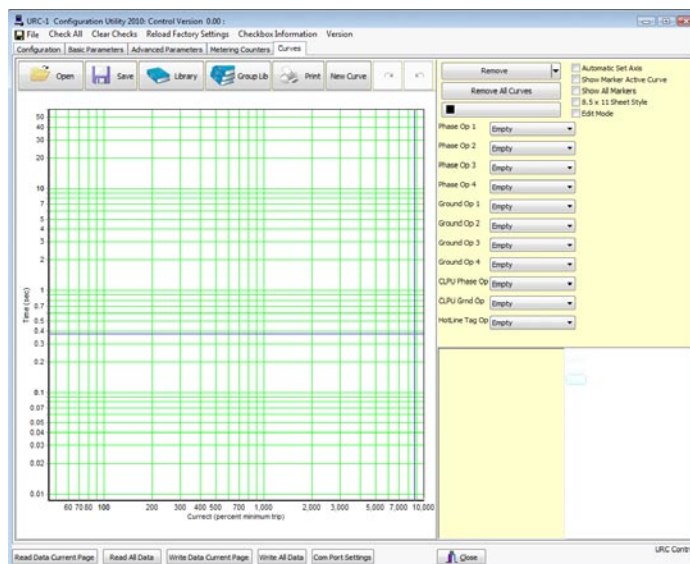


# CURVES TAB

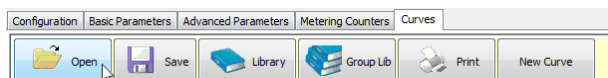
## (CURVE EDITOR)

### Introduction

Because of the functionality needed for editing, saving, and recalling recloser curves the Curves Tab is distinctly different than the other tabs of the URC-1 in that it acts as a utility within a utility (complete with its own open, save, and editing features). Because of its independence from the rest of the URC-1 Configuration utility it will be referred to, from this point on, as the curve editor. With the curve editor you can open existing curves, create custom curves, customize existing curves to suite particular needs, and more. This section is intended to familiarize you with the URC-1 Curve Editor tools. The screenshot at right is an example of how the curve editor appears in the utility when it is first opened.

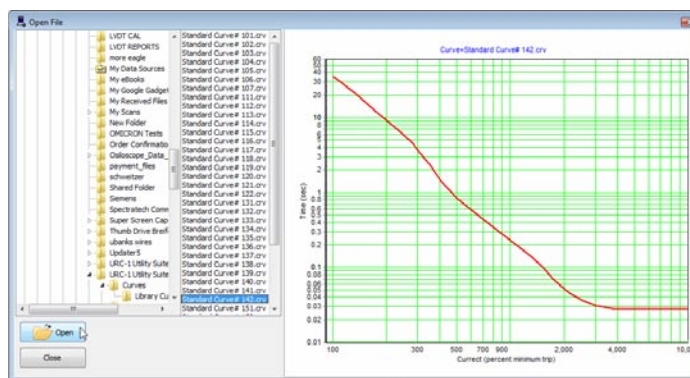


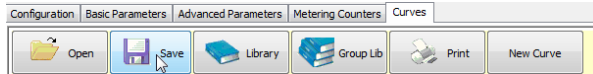
### Button Bar



### Open

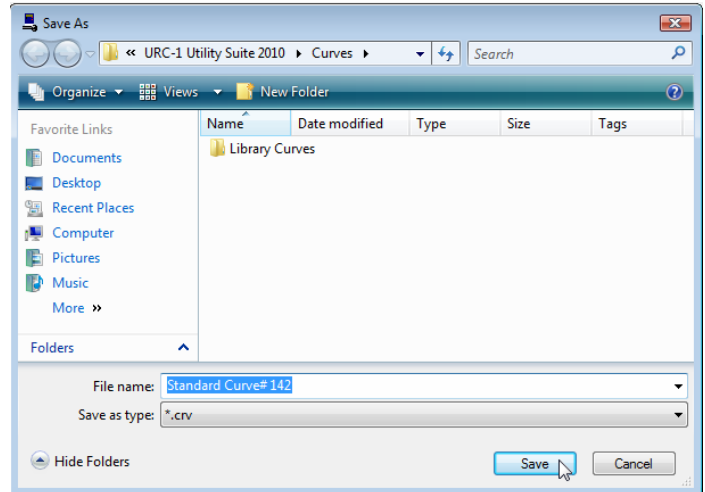
Press the Open Button to open previously saved (see Save) Custom Curves.





## Save

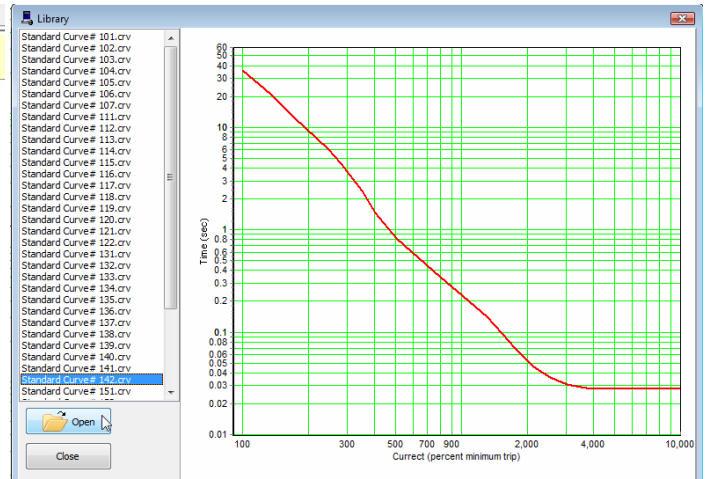
Press the save button to save newly created custom curves. *Note: Use a file name that will be easy to remember.*



## Library

Press the Library button to open the Standard curves library. When the library is opened select the desired curve, verify on the curve the graph then press the open button.

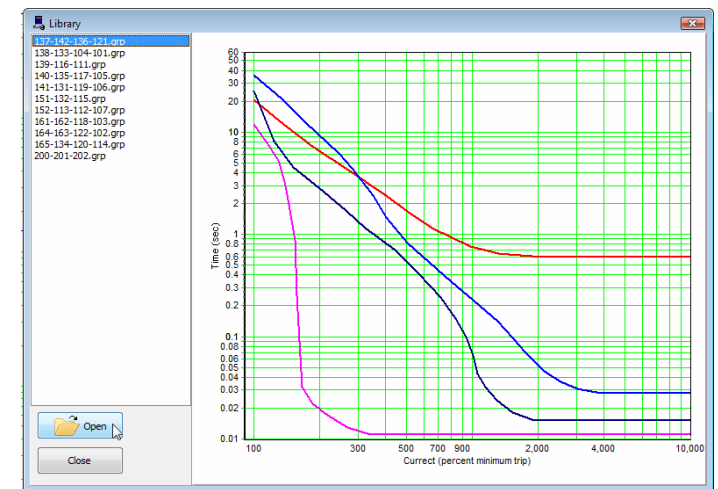
After the Curve is opened it will appear on the Curve Editor graph along with any other curve(s) that might already be on the graph.

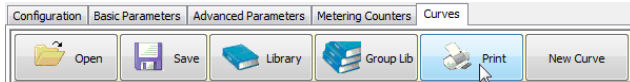


## Group Library

Press the Group Library button to open the curves group library. When the group library is opened select the desired curve group, verify the group on the graph then press the open button.

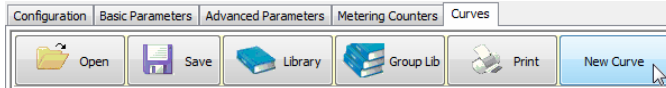
After the Curves are opened they will appear on the Curve Editor graph along with any other curve(s) that might already be on the graph.





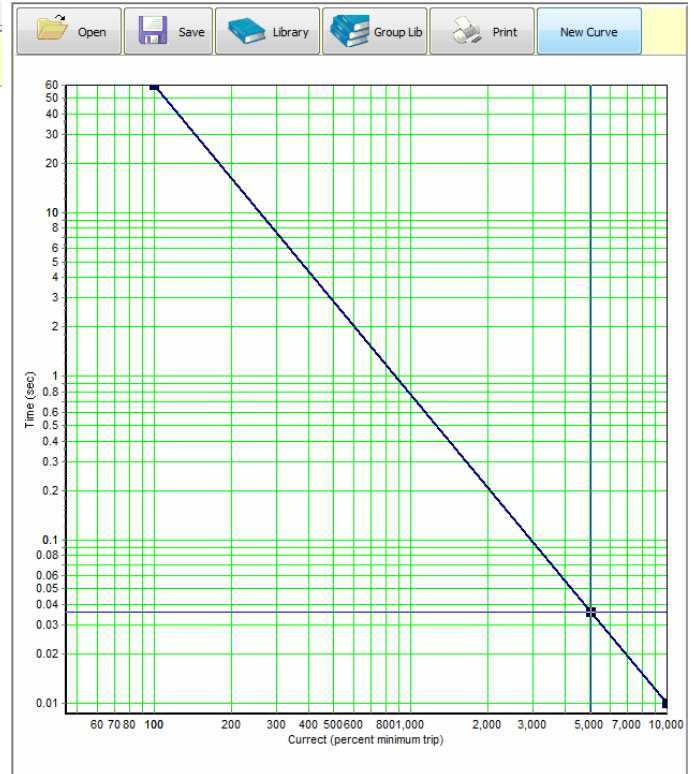
## Print

Press the Print Button to print a copy of the graph with curve (or curves) for archival purposes.



## New Curve

Press the New Curve Button to open a new curve for editing into a custom curve.



---

# EXAMPLE CONFIGURATION

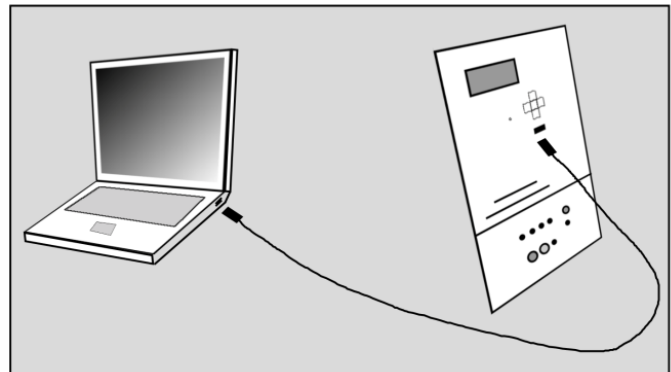
## Introduction

In the previous sections of this manual we discussed the URC1 Configuration Utility from the perspective of the user interface. In this section (and the following section) we will discuss the Configuration Utility from the perspective of the user. The following exercise is intended to familiarize the user with the URC-1 Configuration Utility for the purpose of “loading” control settings into the URC-1. These settings are not based on a real case scenario and therefore should not be used in a “real world” application; they exist only as an exercise to familiarize the user with the procedure for making a settings file and writing it to a URC-1.

The first part of this section consists of a sample settings worksheet (a blank copy of this worksheet is available for download from ICMI or in the URC-1 Operator’s Guide). This sample worksheet is designed to coincide with the settings values that will be entered by the user while following this exercise. If the user desires, the user can substitute other (real world) settings into this exercise. In the name of simplicity it is recommend that the user follow the sample on their first “go ‘round” with the URC-1 Configuration Utility.

## Getting Started

Connect your computer to the URC-1 recloser control with the provided USB cable. Start the URC-1 Configuration Utility. Check the USB connection by “reading” data from the control. Once communication has been verified clear all checks and reload the factory default settings.



The following pages contain configuration information and sample screenshots with the configuration transcribed onto them. The screenshots are presented in the order of the setpoints. Next to each screenshot there will be a brief description of each item in the screenshot (including non editable points).

---

## URC-1 Configuration Settings Worksheet (Page 1)

Unit Serial Number 999 Firmware Rev. 1.69 Other Outer Sub

### CONFIGURATION

#### Recloser

Line Frequency 60 Hz  
 Ct Turns Ratio 1000 :1  
 Max Interrupter Duty 100

#### Communications

No Comm Settings at this time  
Password  
 No password setting at this time

### BASIC PARAMETERS

#### Minimum Trip

Normal Min Trip Phase 400 A  
 Normal Min Trip GND 250 A  
 Nor Min Trip Sensitive GND 40 A  
 Alt. Min Trip Phase 200 A  
 Alt. Min Trip GND 125 A  
 Alt. Min Trip Sensitive GND 20 A

#### Operations To Lockout

Phase Ops to Lockout 4 Ops  
 GND Ops to Lockout 3 Ops  
 Sensitive Gnd Ops to Lockout 2 Ops

#### COLD LOAD PICKUP

CLPU Time 30 Sec  
 Manual CLPU Close  Off  On  
 CLPU Phase Ops to Lockout 3 Ops  
 CLPU GND/Earth Ops to L.O. 2 Ops

#### Reclose Intreval/Reset Time

1'st Interval 5 Sec  
 2'nd Interval 5 Sec  
 3'rd Interval 10 Sec  
 Reset Time 60 Sec  
 Reclose Attempts 10  
 Reclose Retry Time 5 Sec

#### SENSITIVE EARTH/GND

Sensitive Earth Definite Time to Lockout 90 Sec

## CONFIGURATION TAB

### Control

#### *Unit serial number;*

Shows the serial number of the URC-1 control.

#### *Firmware Revision;*

Shows the firmware that resides in the control.

#### *Set Control Date/Time to this PC*

Used to sync the control time and date with the computer click on the Execute button.

The screenshot shows the 'Control' configuration section. It includes three items: 'unit serial number (read-only)' with a value of 999, 'Firmware Revision (read-only)' with a value of 1.69, and a button labeled 'Set Control Date/Time to this PC' with an 'Execute' button next to it.

### Recloser

#### *Line Frequency;*

Used to set the Line frequency. Because 60 Hz is the default setting you will not need to edit this Item.

#### *CT Turns Ratio;*

Used to set the current ratio. Because 1000:1 is the default setting you will not need to edit this Item.

#### *Maximum Interrupter Duty;*

Enter 100 into this set point. Notice that the checkbox is automatically checked when the value is edited. This automatic feature is included to insure that an edited item will be sent to the control when the upload command is sent.

The screenshot shows the 'Recloser' configuration section. It includes three items: 'Line Frequency' with radio buttons for 50Hz and 60Hz (60Hz is selected), 'CT Turns Ratio' with a dropdown menu showing 1000:1, and 'Maximum Interrupter Duty' with a checked checkbox and a value of 100.

## BASIC PARAMETERS TAB

### Minimum Trip

#### *Normal minimum Trip Phase;*

Enter 400 into this set point.

#### *Normal minimum Trip Ground;*

Enter 250 into this set point.

#### *Normal minimum Trip Sensitive Ground;*

Enter 40 into this set point.

#### *Alternate minimum Trip Phase;*

Because 200 amps is the default you do not need to edit this item.

The screenshot shows the 'Minimum Trip' configuration section. It includes six items, each with a checked checkbox and a value: 'Normal minimum Trip Phase' (400 A), 'Normal minimum Trip Ground' (250 A), 'Normal minimum Trip Sensitive Ground Trip' (40 A), 'Alternate minimum Trip Phase' (200 A), 'Alternate minimum Trip Ground' (125 A), and 'Alternate minimum Trip Sensitive Ground Trip' (20 A).

***Alternate minimum Trip Ground;***

Enter **125** into this set point.

***Alternate minimum Trip Sensitive Ground;***

Enter **20** into this set point.

**Reclose Interval/Reset Time**

***1<sup>st</sup> Interval;***

Enter **5** sec into this set point.

***2<sup>nd</sup> Interval;***

Enter **5** sec into this set point.

***3<sup>rd</sup> Interval;***

Enter **10** sec into this set point.

***Reset Time;***

Enter **60** sec into this set point.

***Reclose Attempts;***

Enter **10** into this set point.

***Reclose Retry Time;***

Enter **5** sec into this set point.

Reclose Interval/Reset Time	
<input checked="" type="checkbox"/> 1st Interval	5.0 Sec
<input checked="" type="checkbox"/> 2nd Interval	5.0 Sec
<input checked="" type="checkbox"/> 3rd Interval	10.0 Sec
<input checked="" type="checkbox"/> Reset Time	60 Sec
<input checked="" type="checkbox"/> Reclose Attempts	10
<input checked="" type="checkbox"/> Reclose Retry Time	5 Sec

**Operations to Lockout**

***Phase Operations to Lockout;***

Used to set phase ops to lockout. Because 4 operations is the default you do not need to edit this item.

***Ground Operations to Lockout;***

Enter **3** operations into this set point.

***Sensitive Ground Operations to Lockout;***

Enter **2** operations into this set point.

Operations to Lockout	
<input type="checkbox"/> Phase Operations Lockout	4 Ops
<input checked="" type="checkbox"/> Ground Operations Lockout	3 Ops
<input checked="" type="checkbox"/> Sensitive Ground Fault Operations Lockout	2 Ops

**Cold Load Pickup**

***CLPU Time;***

Because 30 sec. is the default you do not need to edit this item.

Cold Load Pickup (CLPU)	
<input type="checkbox"/> CLPU Time	30 sec
<input type="checkbox"/> Manual CLPU Close	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input checked="" type="checkbox"/> CLPU Phase Operations to Lockout	3
<input checked="" type="checkbox"/> CLPU Ground/Earth Operations to Lockout	2

***Manual CLPU Close;***

Used to activate Manual CLPU Close. Because **ON** is the default you do not need to edit this item.

***CLPU Phase Operations to Lockout;***

Enter **3** operations into this set point.

***CLPU Ground/Earth Operations to Lockout;***

Enter **3** operations into this set point.

**Sensitive Earth/Ground**

***Sensitive Earth definite Time to Lockout;***

Enter 90 sec into this set point.

**Sensitive Earth/Ground**

Sensitive Earth Definite Time to Lockout 90.0 Sec

**NOTE: To disable the sensitive earth feature of the URC-1 set "Sensitive Earth Definite Time to Lockout" to 0.0 Sec.**

## URC-1 Configuration Settings Worksheet (Page 2)

Unit Serial Number 999 Firmware Rev. 1.69 Other Outer Sub

---

### ADVANCED PARAMETERS

#### HIGH CURRENT LOCKOUT

GND HCLO	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On	Phase HCLO Active on Op1	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On
GND Minimum Trip Multiple	<u>30</u> A	Phase HCLO Active on Op2	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On
GND HCLO Active on Op1	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On	Phase HCLO Active on Op3	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On
GND HCLO Active on Op2	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On	Phase HCLO Active on Op4	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On
GND HCLO Active on Op3	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On	<u>General</u>	
GND HCLO Active on Op4	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On	Max Seq. Coord. Op. Number	<u>3</u>
Phase HCLO	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On	GND Trip Precedence	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On
Phase Minimum Trip Multiple	<u>30</u> A	Interrupter Duty Monitor	<input type="checkbox"/> Off <input checked="" type="checkbox"/> On
		Reset Targets at Reclose	<input checked="" type="checkbox"/> Off <input type="checkbox"/> On

### METERING COUNTERS

#### Target Counters

GND Targets	<u>0</u> OPS
Phase 1-2 Targets	<u>1</u> OPS
Phase 3-4 Targets	<u>2</u> OPS
Phase 5-6 Targets	<u>3</u> OPS
Sensitive GND Targets	<u>4</u> OPS

---

---

## ADVANCED PARAMETERS TAB

### High Current Lockout

**Ground HCLO;** Select **ON** for this set point.

**Ground Minimum Trip Multiple;** Enter **29** into this set point.

**GND HCLO Active on Operation 1;** Select **ON** for this set point.

**GND HCLO Active on Operation 2;** Because **OFF** is the default you do not need to edit this item.

**GND HCLO Active on Operation 3;** Select **ON** for this set point.

**GND HCLO Active on Operation 4;** Because **OFF** is the default you do not need to edit this item.

**Phase HCLO;** Select **ON** for this set point.

**Phase Minimum Trip Multiple;** Enter **29** into this set point.

**PH HCLO Active on Operation 1;** Select **ON** for this set point.

**PH HCLO Active on Operation 2;** Because **OFF** is the default you do not need to edit this item.

**PH HCLO Active on Operation 3;** Select **ON** for this set point.

**PH HCLO Active on Operation 4;** Because **OFF** is the default you do not need to edit this item.

The screenshot shows the 'High Current Lockout' configuration page. It features a list of parameters on the left and their corresponding settings on the right. The settings are as follows:

Parameter	Setting
<input checked="" type="checkbox"/> Ground HCLO	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input checked="" type="checkbox"/> Ground Minimum Trip Multiple	29
<input checked="" type="checkbox"/> GND HCLO Active on Operation 1	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input type="checkbox"/> GND HCLO Active on Operation 2	<input checked="" type="radio"/> OFF <input type="radio"/> ON
<input checked="" type="checkbox"/> GND HCLO Active on Operation 3	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input type="checkbox"/> GND HCLO Active on Operation 4	<input checked="" type="radio"/> OFF <input type="radio"/> ON
<input checked="" type="checkbox"/> Phase HCLO	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input checked="" type="checkbox"/> Phase Minimum Trip Multiple	29
<input checked="" type="checkbox"/> PH HCLO Active on Operation 1	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input type="checkbox"/> PH HCLO Active on Operation 2	<input checked="" type="radio"/> OFF <input type="radio"/> ON
<input checked="" type="checkbox"/> PH HCLO Active on Operation 3	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input type="checkbox"/> PH HCLO Active on Operation 4	<input checked="" type="radio"/> OFF <input type="radio"/> ON

## General

**Max Seq Coord Operation Number;** Enter 3 operations into this set point.

**Sequence Coordination;** Because **ON** is the default you do not need to edit this item.

**Ground Trip Precedence;** Because **OFF** is the default you do not need to edit this item.

**Interrupter Duty Monitor;** Because **ON** is the default you do not need to edit this item.

**Reset Targets at Reclose;** Select **ON** for this set point.

**General**

<input type="checkbox"/> Max Seq Coord Operation Number	_____ 3
<input type="checkbox"/> Sequence Coordination	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input type="checkbox"/> Ground Trip Precedence	<input checked="" type="radio"/> OFF <input type="radio"/> ON
<input type="checkbox"/> Interrupter Duty Monitor	<input type="radio"/> OFF <input checked="" type="radio"/> ON
<input checked="" type="checkbox"/> Reset Targets at Reclose	<input checked="" type="radio"/> OFF <input type="radio"/> ON

## METERING COUNTERS TAB

### Max Demand Currents

Max Demand Currents (Read Only)		
Max Demand Current GND	_____	Amps 05/20/2102 00:06:24
Max Demand Current 1-2	_____	Amps 05/20/2102 00:06:24
Max Demand Current 3-4	_____	Amps 05/20/2102 00:06:24
Max Demand Current 5-6	_____	Amps 05/20/2102 00:06:24

## URC-1 Configuration Settings Worksheet (Page 3)

Unit Serial Number 999 Firmware Rev. 1.69 Other Outer Sub

### CURVES

Slot	Curve	Modifier	Slot	Curve	Modifier
Phase Op 1 _____	<input type="checkbox"/> Multiplier _____	_____	GND Op 1 _____	<input type="checkbox"/> Multiplier _____	_____
	<input checked="" type="checkbox"/> Adder _____	_____		<input type="checkbox"/> Adder _____	_____
	<input type="checkbox"/> Min Res. Time _____sec	_____		<input type="checkbox"/> Min Res. Time _____sec	_____
	<input type="checkbox"/> HCT Ratio _____	_____		<input type="checkbox"/> HCT Ratio _____	_____
	HCT Time _____sec	_____		HCT Time _____sec	_____
Phase Op 2 _____	<input type="checkbox"/> Multiplier _____	_____	GND Op 2 _____	<input type="checkbox"/> Multiplier _____	_____
	<input type="checkbox"/> Adder _____	_____		<input type="checkbox"/> Adder _____	_____
	<input type="checkbox"/> Min Res. Time _____sec	_____		<input type="checkbox"/> Min Res. Time _____sec	_____
	<input type="checkbox"/> HCT Ratio _____	_____		<input type="checkbox"/> HCT Ratio _____	_____
	HCT Time _____sec	_____		HCT Time _____sec	_____
Phase Op 3 _____	<input type="checkbox"/> Multiplier _____	_____	GND Op 3 _____	<input type="checkbox"/> Multiplier _____	_____
	<input type="checkbox"/> Adder _____	_____		<input type="checkbox"/> Adder _____	_____
	<input type="checkbox"/> Min Res. Time _____sec	_____		<input type="checkbox"/> Min Res. Time _____sec	_____
	<input type="checkbox"/> HCT Ratio _____	_____		<input type="checkbox"/> HCT Ratio _____	_____
	HCT Time _____sec	_____		HCT Time _____sec	_____
Phase Op 4 _____	<input type="checkbox"/> Multiplier _____	_____	GND Op 4 _____	<input type="checkbox"/> Multiplier _____	_____
	<input type="checkbox"/> Adder _____	_____		<input type="checkbox"/> Adder _____	_____
	<input type="checkbox"/> Min Res. Time _____sec	_____		<input type="checkbox"/> Min Res. Time _____sec	_____
	<input type="checkbox"/> HCT Ratio _____	_____		<input type="checkbox"/> HCT Ratio _____	_____
	HCT Time _____sec	_____		HCT Time _____sec	_____

**Copyright 2009 I.C.M.I. (Inductive Components Mfg., Inc.)**

**1200 Ferris Rd., Amelia, OH 45102**

**Phone: (513) 752-4731 Fax: (513) 752-4738 Web: [www.icmiinc.com](http://www.icmiinc.com)**

## URC-1 Configuration Settings Worksheet (Page 4)

Unit Serial Number 999 Firmware Rev. 1.69 Other Outer Sub

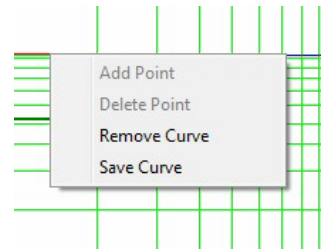
### CURVES Cont.

Slot	Curve	Modifier	Slot	Curve	Modifier
CLPU Phase Op _____	<input type="checkbox"/> Multiplier	_____	CLPU GND Op _____	<input type="checkbox"/> Multiplier	_____
	<input type="checkbox"/> Adder	_____		<input type="checkbox"/> Adder	_____
	<input type="checkbox"/> Min Res. Time	_____sec		<input type="checkbox"/> Min Res. Time	_____sec
	<input type="checkbox"/> HCT Ratio	_____		<input type="checkbox"/> HCT Ratio	_____
	HCT Time	_____sec		HCT Time	_____sec
Hot Line Tag Op _____	<input type="checkbox"/> Multiplier	_____			
	<input type="checkbox"/> Adder	_____			
	<input type="checkbox"/> Min Res. Time	_____sec			
	<input type="checkbox"/> HCT Ratio	_____			
	HCT Time	_____sec			

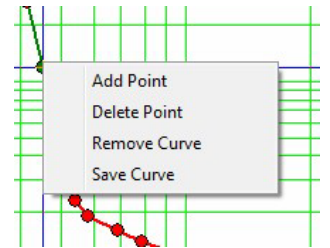
ICM SAMPLE  
 FOR DEMONSTRATION  
 PURPOSES ONLY  
 DO NOT COPY THIS SHEET  
 ONTO ANY CONTROL

# TIPS & TRICKS

In the Curve Editor Right click for the following menu. From this menu you can save the selected curve, remove the selected curve. Note: If the editor is not in the edit mode Add Point and Delete point will be grayed out indicating these functions are not available in read only mode.



While in the edit mode you can also add a point to the selected curve or remove a point from the selected curve.



In the configuration utility you can reset individual settings by pressing "Ctrl+D".