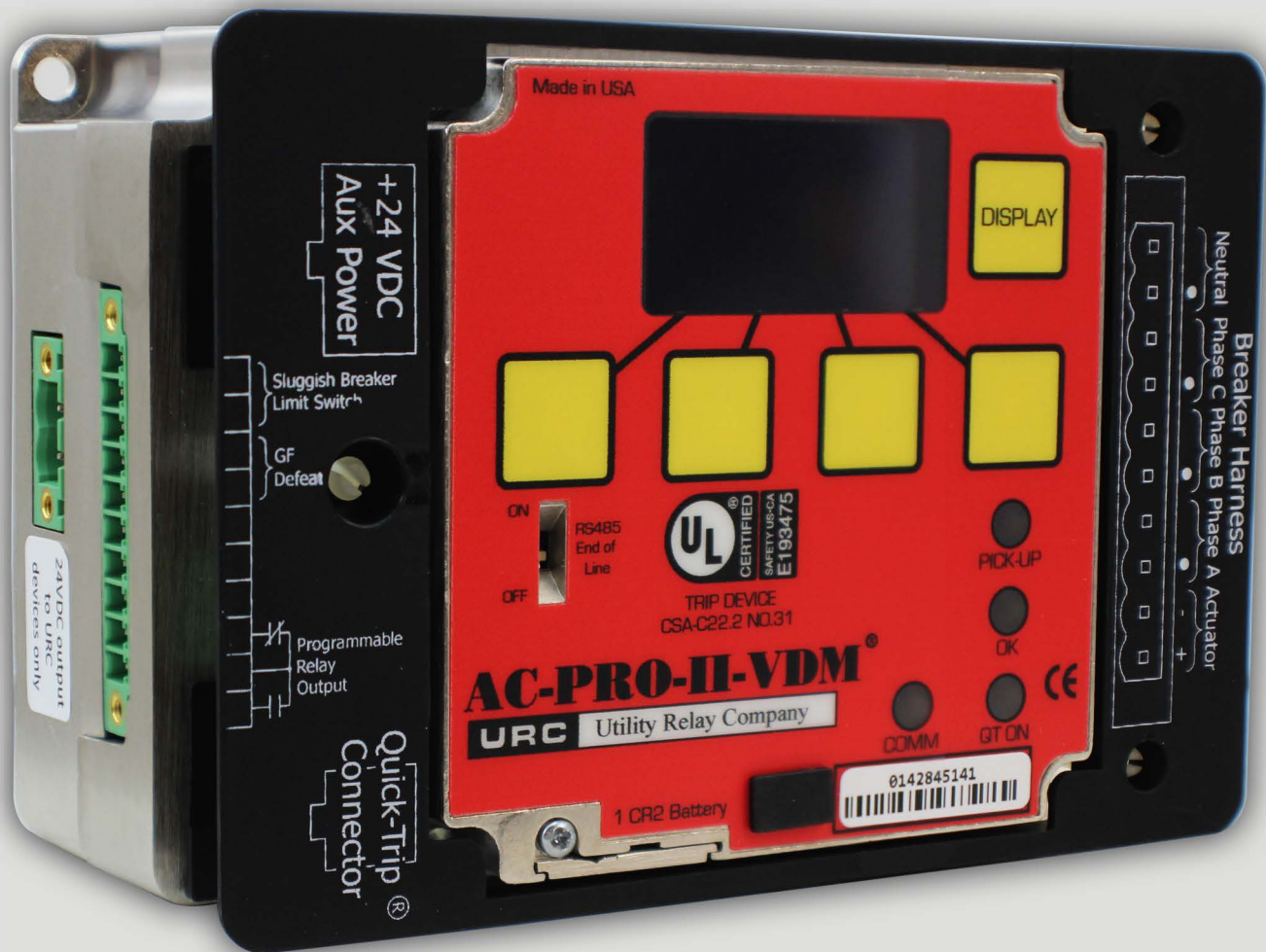


QUICK START MANUAL

AC Trip Unit
Manual v4.2

AC-PRO-II®



State of the Art Technology for
Low Voltage Circuit Breaker Modernization

URC Utility Relay Company
UTILITYRELAY.COM

10100 QUEENS WAY
CHAGRIN FALLS, OH 44023
USA
888.289.2864

This is an abbreviated “Quick Start” Manual.
 For full version of AC-PRO-II Instruction Manual, visit:
http://www.utilityrelay.com/Side_Bar/Instruction_Manuals.html



Manual Revision 4.20 – September 2025

Table of Contents

Section:	Page
1.0 Introduction and Product Overview	1
2.0 Commissioning the AC-PRO-II®	2
2.1 Security Code	2
2.2 Time and Date Setting	2
3.0 Rotating the Display	2
4.0 Testing	3
5.0 Menu Navigation	3
6.0 External Connections	4
7.0 QUICK-TRIP® (Arc Flash reduction (ERMS))	6
7.1 QUICK-TRIP® Basics & Operation	7
7.2 AC-PRO-II QT2-Switch Mounting	8
7.3 Remote QUICK-TRIP® Switch	8
7.4 QUICK-TRIP® Remote Indication	8
7.5 QUICK-TRIP® ON / OFF Control	9
7.6 BREAKER-IQ®	10
8.0 Communications	10
8.1 Smart 1-Line®	10
9.0 USB Extension cable	11
9.1 USB Extension Cable Installation	11
10.0 Normal Operations & Readings	12
11.0 InfoPro-AC™ Software Application	12
12.0 Firmware Versions and Updates	12
Appendix A – Time Current Curves (TCC)	13
Appendix A.1: Overload TCC	13
Appendix A.2: Ground Fault (GF) TCC	14
Appendix A.3: Neutral Overload (NOL) TCC	15
Appendix A. 4: QUICK-TRIP Ground Fault and QUICK-TRIP Instantaneous TCCs	16
Appendix A. 5: Phase Current Unbalance TCC	17

1.0 Introduction and Product Overview

The AC-PRO-II® is a state of the art, micro-controller based trip unit for use on three phase, 600 Volt class, AC circuit breakers on 50 Hertz or 60 Hertz systems. The AC-PRO-II features a rotatable 128 x 64 Multi-line, Organic Light Emitting Diode (OLED) Display, smart buttons, and LEDs.

The standard AC-PRO-II features:

- Overload (LT) and fault (ST, Inst, GF) protection
- RS485 communications
- QUICK-TRIP® arc flash hazard reduction
- Patented Sluggish Breaker® detection
- Time stamped trip history with waveform capture
- USB port for BREAKER-IQ® device, InfoPro-AC™ software interface, and SAFE-T-TRIP® hand-held remote trip device

Additionally, with the optional **Voltage Divider Module (VDM®)**, the AC-PRO-II can provide voltage and power measurements and advanced voltage protection -- Over/Under Voltage protection, Phase Loss/Reversal trip & alarm, and Reverse Power trip and alarm. (V4 firmware). The VDM provides continuous trip unit power and RS-485 communications even when the breaker is open. It also provides 24VDC power to the optional BREAKER-IQ® device.

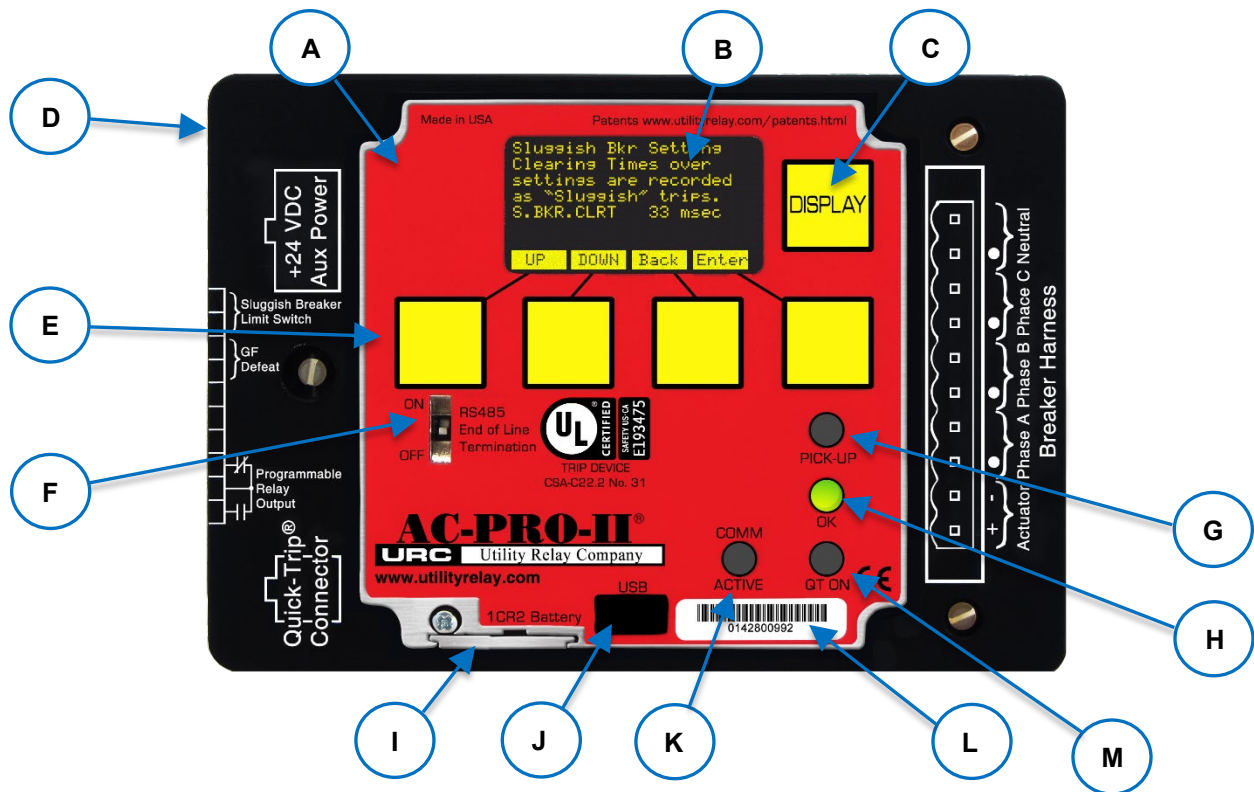


Figure A: AC-PRO-II Front View Horizontal Configuration (See page 2 for Item descriptions)

Refer to Figure A on page 1 for items below:

- A. Local Display (rotatable)**
The Local Display is normally mounted to the trip unit. It can be rotated or separated from the trip unit for specific breakers where space is limited.
NOTE: Front label for VDM units updated to “AC-PRO-II-VDM” in Sept 2025.
- B. OLED Display**
The display is normally off. Pushing the “DISPLAY” button (C) turns on the display. The OLED displays the following information. Refer to Section 5.0 for menu navigation.
- C. DISPLAY Push Button**
Pushing the “DISPLAY” button will turn on the display. If no buttons are pushed for 60 seconds, the display will turn off.
- D. Removable wire cover**
Cover with printed connection labels. See Section 6.0 for external connections (behind cover).
- E. “Smart” Push Buttons**
These push buttons perform the functions indicated on the bottom of the OLED display. These buttons are used for all menu navigation.
- F. RS-485 Line Termination Switch**
This switch should be placed in the ON position only if the trip unit is the last in the RS-485 communications wiring run.
- G. Red PICK-UP LED**
This LED will illuminate (before a trip occurs) if an LT, ST, Instantaneous, GF, UV, or OV trip pick-up condition occurs.
- H. Green OK (Self-Test) LED**
When the trip unit is powered up, this LED is on and blinking unless a problem is detected. (Note: Firmware prior to Version 4.0 used a solid LED to indicate “OK”.) If the trip unit is not powered up, the OK LED will not be on. If the “DISPLAY” button is pressed, the OK LED should come on, unless a problem is detected.
- I. Battery Cover**
To replace the battery, remove the single screw and slide battery cover out, remove the old battery and insert a new CR2, 3-Volt Lithium battery. Replace the battery cover and screw.
- J. Mini-USB Port (shown with cover removed)**
The electrically isolated mini-USB port is available for connection to a laptop/ personal computer for uploading & downloading of settings, information, and firmware; SAFE-T-TRIP remote trip device operation; or USB wall pack for auxiliary power.
- K. COMM ACTIVE LED**
The communications active LED illuminates when the trip unit receives compatible Modbus characters via Communications.
- L. AC-PRO-II Serial Number**
- M. Quick-Trip LED (red)**
This LED will illuminate if a Quick-Trip switch is connected and on the ON position.

2.0 Commissioning the AC-PRO-II®

Before the AC-PRO-II trip unit is put into service, it must first be commissioned so it will function. This requires the user to enter all of the pick-up and delay settings into the unit.

The commissioning process normally takes less than a few minutes to complete.

The AC-PRO-II can be commissioned using the local display screen, or using the InfoPro-AC software application. If the AC-PRO-II has not been commissioned, it will display “Enter settings before placing into service”. Pressing the “SET” button at this screen will begin the settings process. For commissioning using the InfoPro-AC software application, see Section 11.0, and the InfoPro-AC help guide included in the application.

**** IMPORTANT ****

The trip unit will NOT FUNCTION as it is shipped from the factory. The user must first COMMISSION the unit as outlined in this Section.

2.1 Security Code

The security code is the last four (4) digits of the serial number. See Figure A: AC-PRO-II Front View Horizontal Configuration Item L for serial number location.

2.2 Time and Date Setting

The time and date setting is accessed via the MORE menu, by pressing the MORE button at the main screen, then the time button, then the change button. The time and date must be set after commissioning the AC-PRO-II or after replacing the battery to ensure the time stamps (of trips and on-demand waveforms) are recorded and are correct. In order for the time and date to remain accurate after setting, a fresh battery must be in place.

3.0 Rotating the Display

The AC-PRO-II trip unit consists of a main case and a display case. The trip unit orientation can be modified by rotating the display case. Refer to the AC-PRO-II retrofit kit installation manuals for your breaker-specific trip unit orientation.

To rotate the Display Case:

- The breaker must be out of service and de-energized for safety.
- Ensure the person rotating the display is properly grounded and takes special care to avoid static discharge onto trip unit and display internal components.
- Remove the black wiring cover by pulling the wiring cover off the three (3) standoff posts.
- NOTE: the display case is connected to the main case via the following:
 - One (1) Ribbon cable. See Figure C.
 - Four (4) captive screws. See Figure B.
- Loosen the four (4) captive screws with a screwdriver.
- Leave the ribbon cable connected. Do not disconnect the ribbon cable.
- Rotate the display to the position required for the installation on the specific breaker. Be careful not to damage, pinch, or disconnect the ribbon cable.
- Tighten the four (4) captive screws.
- Press the “DISPLAY” button and smart buttons to confirm operation.
- Refer back to the AC-PRO-II retrofit kit Instructions for additional breaker specific steps.

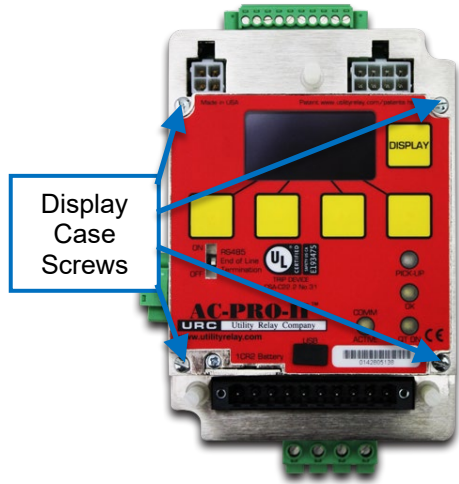


Figure B: Display Case Screw locations

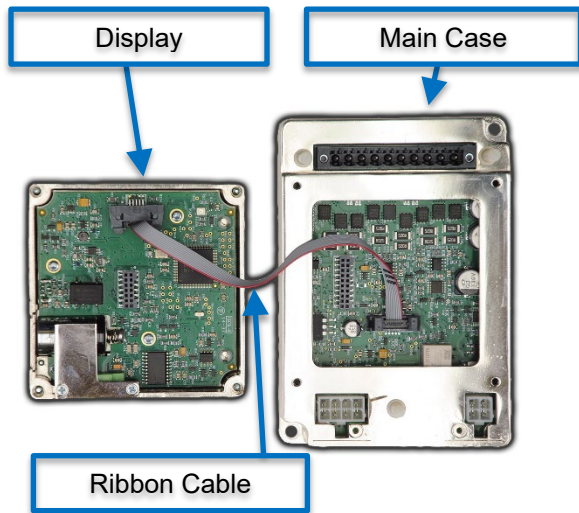


Figure C: Trip Unit and Display (separated)

4.0 Testing

A "primary injection" test is recommended as the final test of the AC-PRO-II retrofit. If residual GF is used, it must be temporarily turned off when testing the other trip functions.

Before proceeding with the normal primary injection tests, the trip unit must be commissioned to make it functional. See Section 2.0 for Commissioning information.

It is best to use the final pick-up and time delay settings if they are known. If not, use typical settings for the primary injection test.

Although primary injection testing is the preferred method to test an AC-PRO-II installation, secondary injection testing can also be used, using URC B-292 Test Set.

See Appendix A for Time Current Curves (TCC). For additional testing information including instructions, and LT Delay Testing Chart, refer to the full AC-PRO-II Instruction Manual. See the link and QR code in the Table of Contents of this document.

5.0 Menu Navigation

AC-PRO-II settings and information can be navigated using the push buttons on the face of the trip unit. Pressing the "DISPLAY" button wakes the display up from its power saving mode. After the display is on, all menu navigation is accomplished using the screen prompts and (4) smart buttons below the display. The smart button labels appear at the bottom of the screen. See the list of menus and sub-menus:

- 1) PWR (Power Menu): This menu provides access to power values, which become available if the optional Voltage Divider Module (VDM) is connected.
- 2) SET (Settings Menu).
 - a. REV (Review Settings sub-menu): This sub-menu allows review of all user settings without the option of changing the settings.
 - b. CHNG (Change Settings sub-menu): This sub-menu allows the user to change all protection, alarm, and breaker information settings.
 - c. TEST (Test Mode sub menu): This sub-menu is for Testing convenience, AC-PRO-II offers a "Test Mode". When the AC-Pro-II is in Test Mode, all Voltage Protection is temporarily disabled, and the need to enter the Security Code to change settings is temporarily disabled. Though Test Mode is automatically turned OFF after 60 minutes, it should always be manually turned OFF after testing is complete.
- 3) HIST (Trip History Menu): This menu provides access to trip history information for up to eight (8) trips.
- 4) MORE (Trip Unit Information Menu): This menu includes serial number(s), time & date settings, battery status, URC contact info, Service Reminder message, etc.
- 5) QT – When at the Main Screen, pressing the DISPLAY button will change the bottom labels at the bottom of the screen. This will allow access to the QUICK-TRIP® mode control. See Figure F for Simple Menu and Section 7 for additional information.

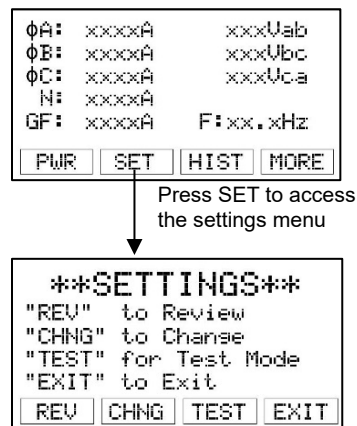
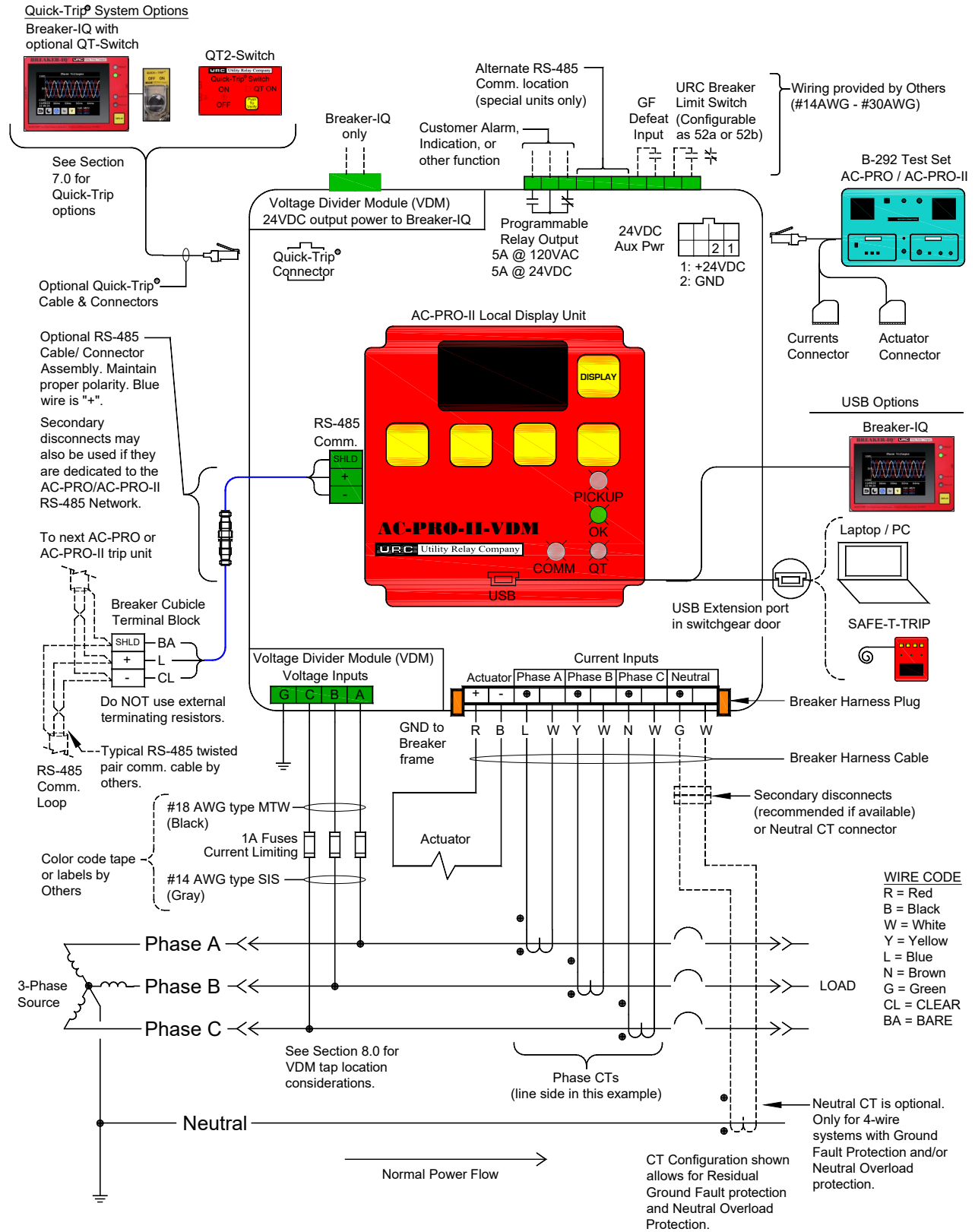


Figure D: Settings Menu first screen

NOTE: Test Mode is an option with Version 2 firmware and later.

6.0 External Connections



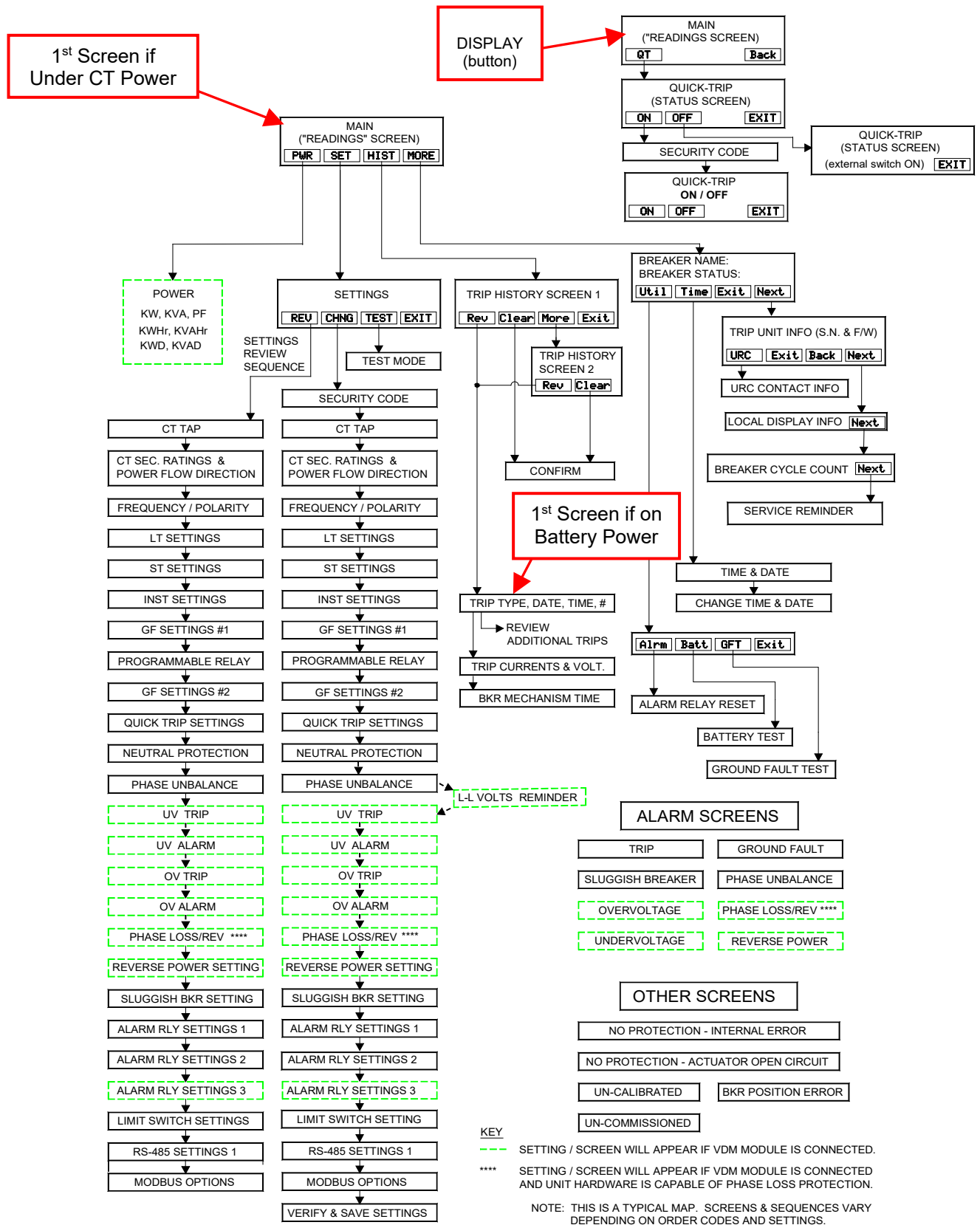
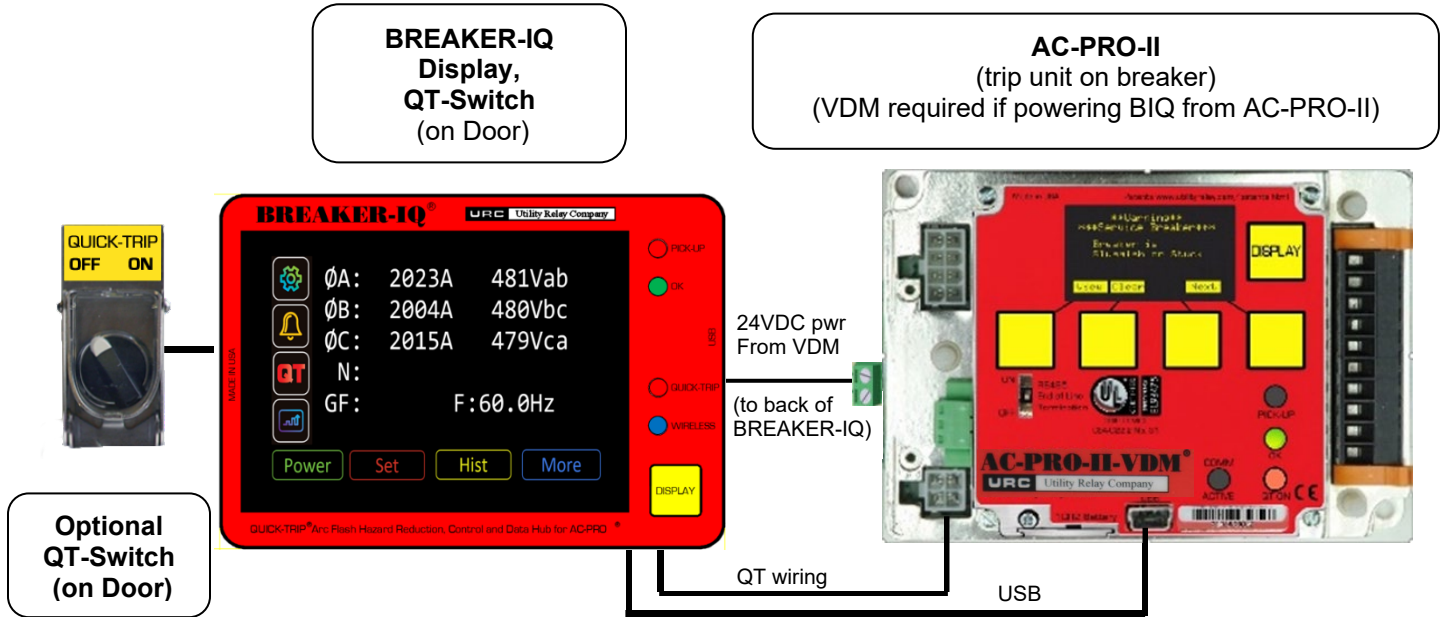


Figure F: Typical AC-PRO-II Menu Navigation Map - Simple View

7.0 QUICK-TRIP® (Arc Flash reduction (ERMS))



See BREAKER-IQ manual for additional information https://utilityrelay.com/PDFs/Product_Manuals/I-breaker-iq.pdf

Figure G: QUICK-TRIP System and Connections (Option #1, includes BREAKER-IQ display)

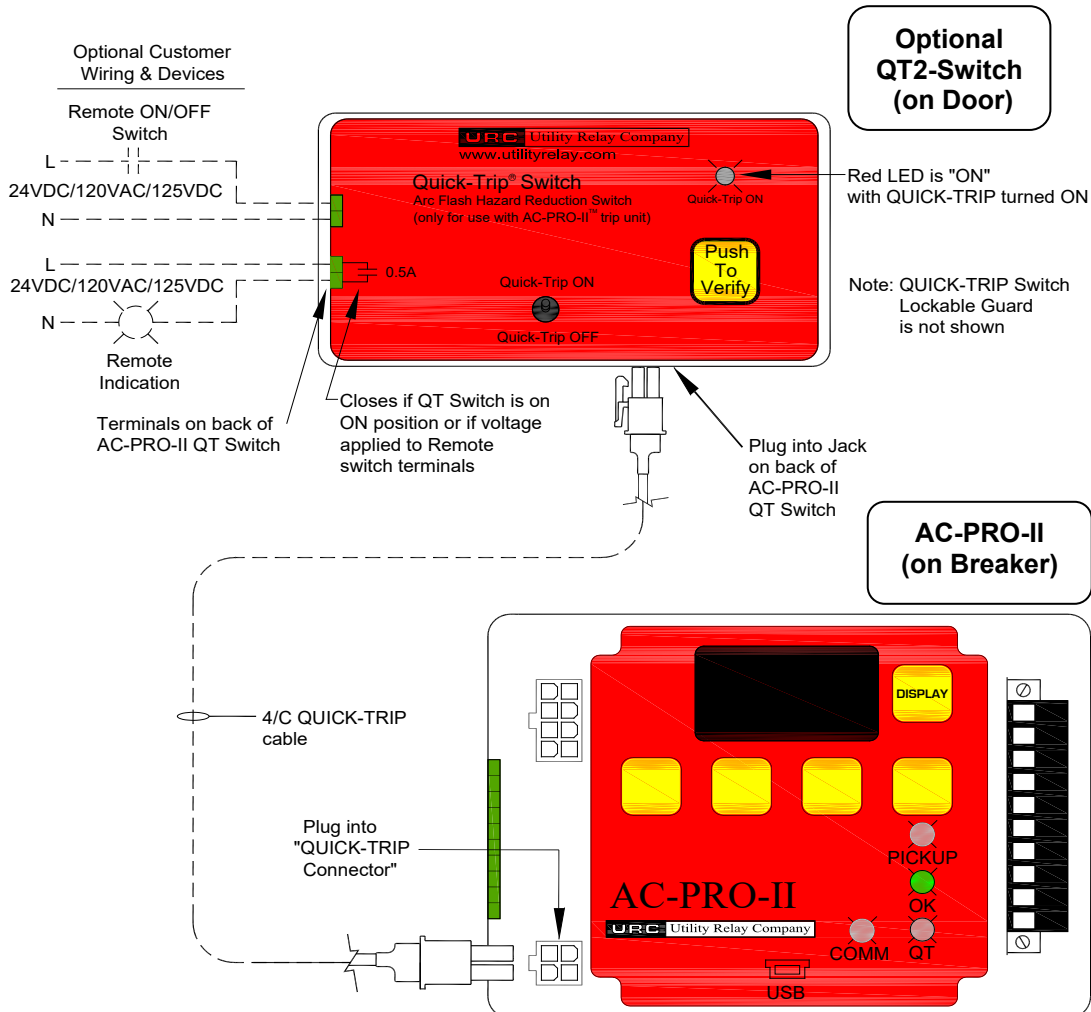


Figure H: QT2-Switch Connections (Option #2, no display)

7.1 QUICK-TRIP® Basics & Operation

The QUICK-TRIP system is a manually controlled arc flash hazard reduction system; otherwise known as an Energy Reducing Maintenance Switch (ERMS). It can reduce trip times when turned on and allows selective coordination between circuit breakers when turned off.

If maintenance personnel must work on energized equipment, they will first turn the QUICK-TRIP system on at the upstream breaker feeding the equipment. If a fault now occurs, the upstream breaker will trip quickly based on the QUICK-TRIP settings **reducing the Arc Flash Hazard to personnel.**

When the maintenance work is finished, the QUICK-TRIP system is turned off and the original selective coordination is back in effect.

The QUICK-TRIP mode can now be controlled with physical switches or by “soft” means. It is recommended that only one or the other means is used. See Section 7.5 for additional information.

**** IMPORTANT ****

Local indication of the QUICK-TRIP ON/OFF status is required by the National Electrical Code. If the AC-PRO-II trip unit (shipped Dec 2017 or later with integral QT LED) is not accessible when the breaker door is closed (e.g. a “through-door” breaker), then an additional visible means of local indication (QT2-Switch, BREAKER-IQ Display, Smart 1-Line, or other means) must be installed.

Option #1: AC-PRO-II trip unit, BREAKER-IQ Display, and optional QUICK-TRIP Switch (pad-lockable) (includes cubicle door display). Shown in Figure G. See <https://www.utilityrelay.com/products/BREAKER-IQ>. See <http://www.utilityrelay.com/products/QUICK-TRIP.html> for additional information. For installation instructions, see [I-breaker-iq.pdf \(utilityrelay.com\)](#)

Option #2: AC-PRO-II:QT2-Switch (padlockable), and 4/C cable. Shown in Figure H. See <http://www.utilityrelay.com/products/QUICK-TRIP.html> for additional information. See this document for installation.

Option #3: Soft Quick-Trip (front Keypad or USB InfoPro-AC software or Smart 1-Line HMI)
See Section 7.5 below for additional information.

When QUICK-TRIP is **ON**, the following settings are enabled:

- QUICK-TRIP Instantaneous (QT-I)
- QUICK-TRIP Ground Fault (QT-GF) (if QT-GF enabled in settings)

These are standard AC-PRO-II settings. All other settings remain in effect.

The “QUICK-TRIP ON LED” provides positive indication that the QUICK-TRIP settings are active if the LED is on. If the AC-PRO-II is not powered up (by current, voltage (VDM), USB or 24VDC Aux.), the QUICK-TRIP Switch “Push-to-Verify” button is available. Pressing this button will “wake up” the trip unit using the AC-PRO-II battery, and the QUICK-TRIP ON LED will illuminate, providing positive indication that the QUICK-TRIP switch or remote QUICK-TRIP switch is in the ON position.

**** IMPORTANT ****

A qualified engineer must determine the QUICK-TRIP settings, calculate the incident energy levels and determine the Hazard Risk Categories (HRC).

The QUICK-TRIP system consists of the following options:

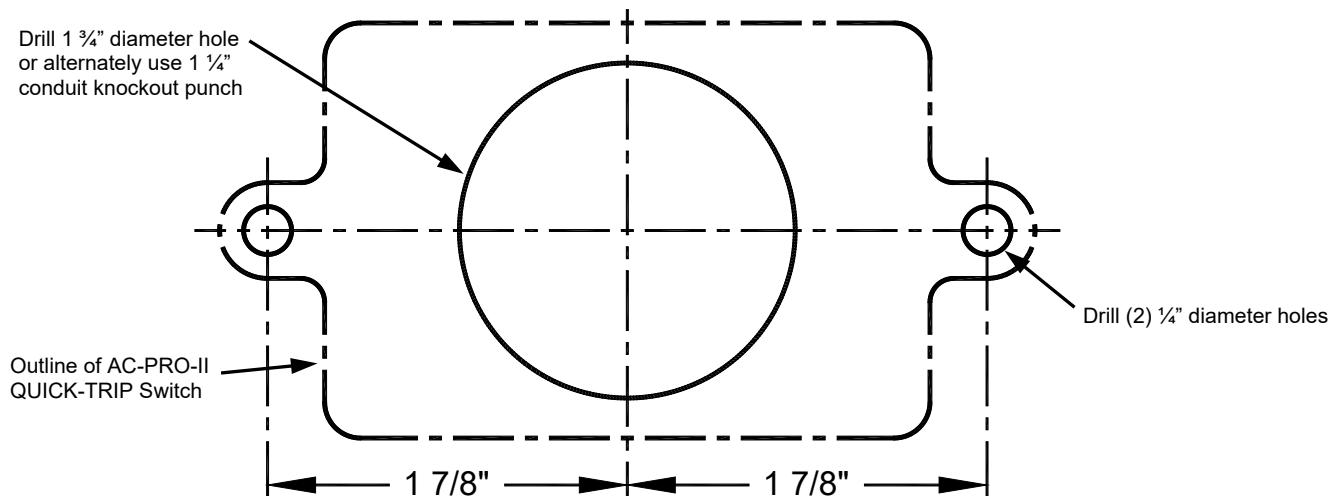


Figure J: AC-PRO-II QT2-Switch Drilling Plan

(Verify Printer Scaling prior to Drilling)

7.2 AC-PRO-II QT2-Switch Mounting

To install the QT2-Switch:

1. Find a suitable location on the cubicle door and mark the location of the three (3) holes using the dimensions in Figure J.
2. Drill two (2) 1/4" mounting holes.
3. For the center hole, cut a 1-3/4" diameter hole using a hole saw or alternately, use a 1-1/4" conduit knockout punch (1.73" D).
4. Attach the QUICK-TRIP Switch to the front of the cubicle door using the two (2) supplied 10-32 screws and lock washers.
5. Connect the QUICK-TRIP Switch to the AC-PRO-II trip unit by plugging one end of the 4/C cable provided into the jack on the back of the QUICK-TRIP Switch. Plug the other end of the cable into the "QT" jack on the front of the AC-PRO-II.
6. Route the cable so it does not interfere with the opening or closing of the cubicle door or with the racking of the breaker between connect and disconnect positions. Use cable ties and holders to hold the cable in position.

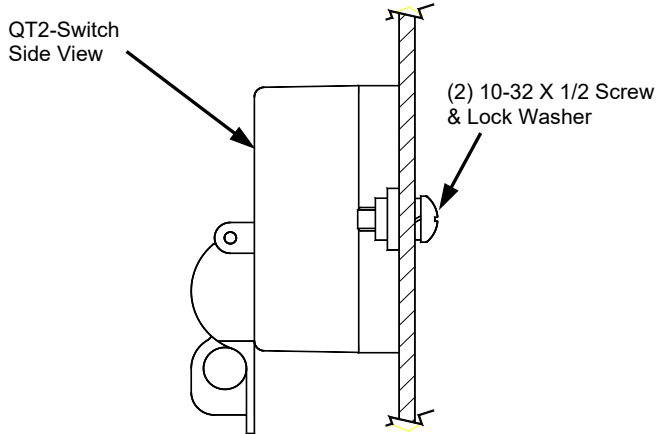


Figure K: QT2-Switch Mounting



Figure L: AC-PRO-II QT2-Switch

7.3 Remote QUICK-TRIP® Switch

The BREAKER-IQ can be wired to a remote QUICK-TRIP switch (provided by others). See the AC-PRO-II (full) Instruction Manual or the BREAKER-IQ Instruction Manual https://utilityrelay.com/PDFs/Product_Manuals/I-AC-PRO-II.pdf https://www.utilityrelay.com/PDFs/Product_Manuals/I-breaker-iq.pdf

Alternatively, the AC-PRO-II QT2-Switch includes terminals on the rear for connection to a remote QUICK-TRIP switch (provided by others). Refer to Figure H: QT2-Switch Connections (Option #2, no display).

If 120VAC (+/- 15%) is applied to the QT2-Switch remote QUICK-TRIP switch terminals, the QUICK-TRIP settings are activated. (Alternatively, 120Vac, 24Vdc and 125Vdc can be utilized for the QT2-SwitchXV version.)

**** NOTE ****

QUICK-TRIP can be activated (by applying 120VAC to the remote Quick Trip switch terminals) even when the AC-PRO-II QUICK-TRIP toggle switch is in the OFF position. Therefore, if a remote QUICK-TRIP switch is installed, URC recommends installing label(s) or nameplate(s) that indicate the presence and location of the remote QUICK-TRIP switch.

7.4 QUICK-TRIP® Remote Indication

The BREAKER-IQ is provided with terminals on the rear for connection to a customer supplied remote QUICK-TRIP indicating light or other device. See the AC-PRO-II (full) Instruction Manual: https://utilityrelay.com/PDFs/Product_Manuals/I-AC-PRO-II.pdf

AC-PRO-II QT2-Switch includes terminals on the rear for connection to a customer-supplied remote QUICK-TRIP indicating light or other device. See Figure H.

If the QUICK-TRIP System is activated (ON), the Remote QUICK-TRIP trip Indication contacts close. The contacts are rated 120VAC, 0.3A for the QT2-Switch; and also rated 24 Vdc, 0.3A and 125 Vdc, 0.3A for the QT2-SwitchXV model.

See additional information on remote Quick-Trip using the Breaker-IQ at: https://www.utilityrelay.com/PDFs/Product_Manuals/I-breaker-iq.pdf

7.5 QUICK-TRIP® ON / OFF Control

QUICK-TRIP® arc flash hazard reduction can be activated using local or remote switches or via three (3) other “soft” methods including the AC-PRO-II front Keypad, via InfoPro-AC (USB), or the Smart 1-Line HMI. (See Figure M: Breaker Control and Figure N: Front Panel QUICK-TRIP ON/OFF Control.) URC recommends using only one means or the other (use either physical switches OR use a “soft” method).

Control and Logic Notes:

1. If a physical QT switch is connected and in the ON position:
 - a. The only way to turn QUICK-TRIP OFF is by switching the physical switch to the OFF position.
 - b. All “soft” QT control methods are not available.
2. If a physical QT switch is not present or is connected but in the OFF position, then QUICK-TRIP can be turned ON or OFF by using one of the “soft” methods (AC-PRO-II front panel, InfoPro-AC (USB) software, or Smart 1-Line via RS-485 communications).

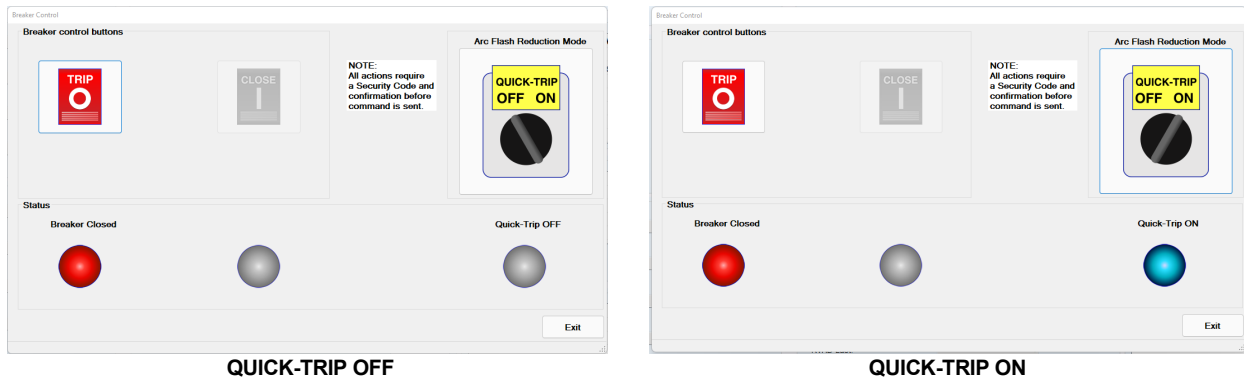


Figure M: Breaker Control Window (InfoPro-AC or Smart 1-Line)

Note: To allow remote Quick-Trip control with Smart 1-Line (RS-485), the “Soft QT SW” Modbus option (permission setting) must be enabled locally at the AC-PRO-II.

To control QUICK-TRIP® mode via the keypad, when at the Main Readings screen, press the “DISPLAY” button, then select “QT”, and then turn Quick-Trip ON or OFF using the buttons below. You will need to enter the Security Code (last 4 sigits of serial number) and then confirm you wish to make the setting adjustment. The Quick-Trip Indicating LED on the trip unit will be lit if trip unit is in QT mode.

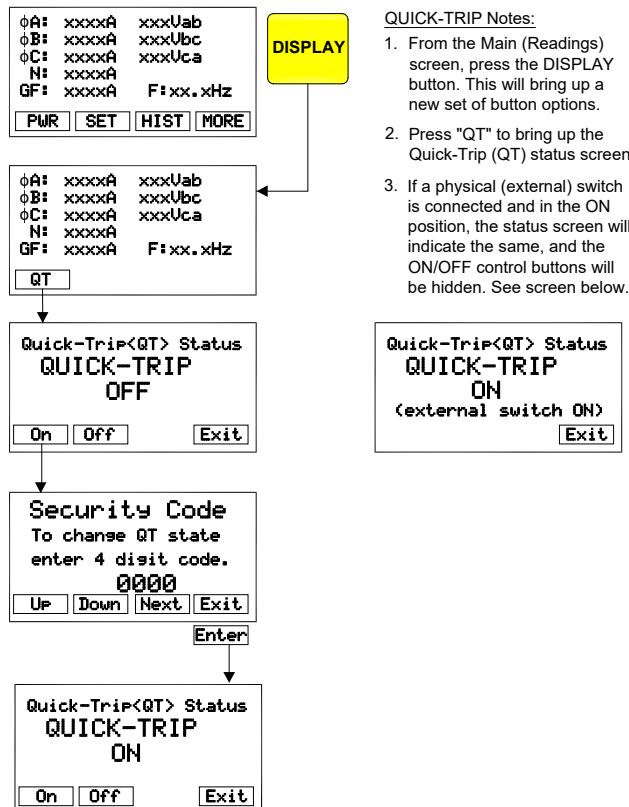


Figure N: Front Panel QUICK-TRIP ON/OFF Control

7.6 BREAKER-IQ®

In many low voltage breaker conversions, the trip unit resides behind a panel / door.

BREAKER-IQ® is a door or panel-mounted display exclusively designed for use with AC-PRO-II trip units. It allows easy access to breaker information and control without exposing the user to the electrical hazards associated with opening/accessing the breaker compartment doors/covers. In addition, BREAKER-IQ offers additional functions, features, and controls which increase safety and productivity, and provide valuable data.

BREAKER-IQ® features:

- Color touchscreen (3.5"), indication LEDs
- Metering, Settings, Trip Data, Alarms
- QUICK-TRIP® Arc Flash Hazard Reduction
- Delayed Trip and Delayed Close (for operator safety)
- Display of Waveform capture
- Wireless communications
- Historical data storage and display
- USB communications
- Breaker position indication

Refer to the BREAKER-IQ Instruction Manual for additional information. https://utilityrelay.com/PDFs/Product_Manuals/I-breaker-iq.pdf

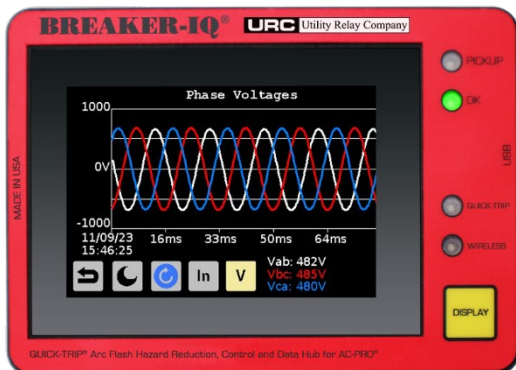


Figure P: BREAKER-IQ®

8.0 Communications

Creating a complete power monitoring and communications system for a low voltage power distribution system is easy with Utility Relay Company's AC-PRO-II. The AC-PRO-II trip unit communicates using industry standard Modbus RTU protocol through a single shielded twisted pair wire connected to the RS485 port. Up to 32 trip units can be daisy-chained together to simplify installation.

The AC-PRO-II with VDM (Voltage Divider Module) is strongly recommended for all communications applications.

The VDM ensures the AC-PRO-II is powered continuously, regardless of whether current is flowing through the breaker or not. The VDM also allows the AC-PRO-II to perform voltage and power features.

Refer to the following documents:

AC-PRO-II (full) Instruction Manual:

https://utilityrelay.com/PDFs/Product_Manuals/I-AC-PRO-II.pdf

AC-PRO-II Modbus Communications Register Map:

https://utilityrelay.com/PDFs/Product_Manuals/I-AC2-COMM.pdf

8.1 Smart 1-Line®

Based on a rugged, fanless, touch screen industrial computer with a solid state drive and a 23.8" high-definition color touchscreen, the Smart 1-Line® is URC's modern turn-key solution for monitoring your AC-PRO-II® networks at one convenient location.

The Smart 1-Line is a field-configurable electronic 1-Line diagram with real-time data obtained via Modbus communications, allowing you to determine LV substation status at a glance. The Smart-1-Line can display currents, voltages, power, frequency, energy, trip-unit settings, waveforms, alarms, breaker open/close status along with remote tripping of breakers, and much more. It ships with software already installed, ready for connecting to your AC-PRO-II Modbus Communications network, with minimal basic setup required.

Refer to the Smart 1-Line Instruction Manual:

https://utilityrelay.com/PDFs/Product_Manuals/I-Smart-1-Line.pdf

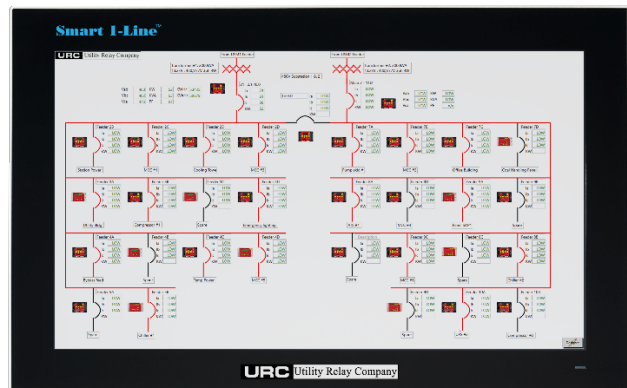


Figure Q: Smart 1-Line®

9.0 USB Extension cable

If AC-PRO-II is installed on a breaker that is located behind a cubicle door, a USB panel mount extension cable and legend plate is provided in the retrofit kit. This provides a permanent USB connection from the AC-PRO-II to a USB port that is accessible at the cubicle door. The cable (5/C, 6 feet long) features a right angle mini-USB connector for the AC-PRO-II and a USB port with cover, and a threaded nut for securing to the cubicle door.



Figure R: USB Extension cable

To install the USB Extension cable:

1. Find a suitable location on the cubicle door and mark the three (3) holes using the dimensions in Figure
2. Drill two (2) 3/16" mounting holes.
3. For the center hole, cut a 1" diameter hole using a hole saw or alternately, use a 3/4" conduit knockout punch.
4. Attach the USB legend plate to the front of the cubicle door using the supplied two (2) 8-32 screws, nuts, and lock washers.
5. Connect the right-angle USB connector to the AC-PRO-II. Route the cable so it does not interfere with the opening or closing of the cubicle door or with the racking of the breaker between connect and disconnect positions. Use the supplied cable ties and holders to hold the cable in position.
6. Position the USB port through the 1" opening and through the opening in the legend plate. Ensure one rubber washer is on the interior of the door / panel, and the threaded USB cover and rubber washer are on the exterior.
7. Thread the plastic nut onto the USB port connector, securing it to the door / panel.

9.1 USB Extension Cable Installation

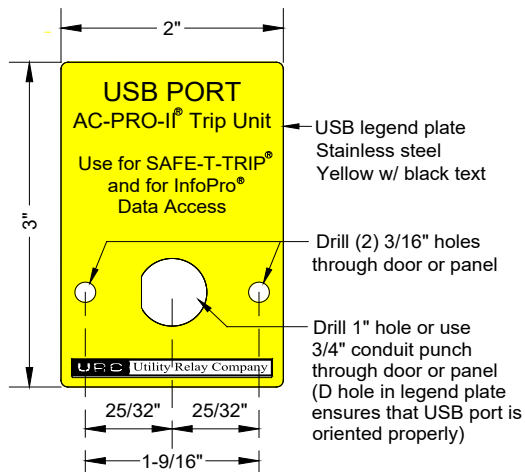


Figure S: USB Extension Plate Drilling

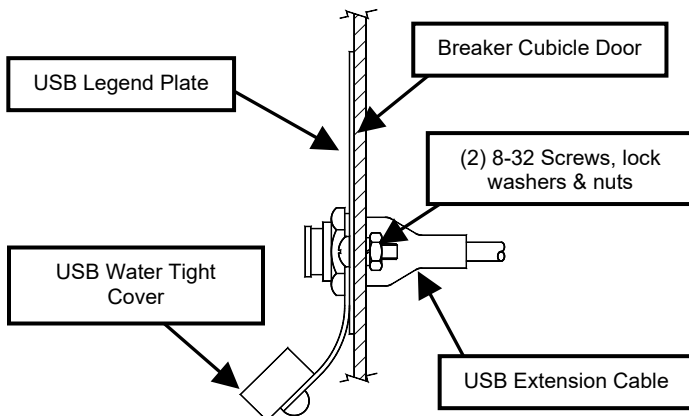


Figure T: USB Extension Plate & Cable Installation

10.0 Normal Operations & Readings

During normal operation, the trip unit display screen will be off and in its power saving mode. When the “DISPLAY” button is pressed during normal operation (no trips, errors, alarms, etc), the trip unit will display current and voltage readings (if equipped with Voltage Divider Module (VDM)). The neutral and GF currents will only be displayed if neutral or GF protective functions are turned on. See below. The “XXXX” digits will display actual readings.



Figure U: Main (“Readings”) Screen

- The left column displays Currents in Amps for Phases A, B, C, Neutral and Ground Fault.
- The right column displays Voltages and Frequency.

Breaker Current Less than 10% of CT Rating:

When the currents are less than about 10% of the CT rating, the display will display “LOW” for currents.

Breaker Current Greater than 10% of CT Rating:

If the breaker current is greater than about 10% of the CT rating, the current readings will be displayed.

Line-to-Line Voltages (if equipped with VDM):

“LOW” will be displayed if the Line-to-Line voltage is 90V or below.

“N/A” will be displayed if the Voltage cannot be determined, most likely because system voltage (i.e. 480V) is not present at the VDM.

Note: If voltages and voltage labels (“Vab, Vbc, Vca”) do not display, the AC-PRO-II is either not equipped with a VDM, or the VDM is not properly connected to the AC-PRO-II, contact URC.

11.0 InfoPro-AC™ Software Application

InfoPro-AC is a software application that can be used with AC-PRO-II for the following:

- Settings – upload, download, view, save, and print.
- Trip history including waveforms – view, save, and print.
- Waveforms (on-demand) – view, save, and print.
- Current, voltage, & power readings – view.
- Alarms and trip unit status Information
- Trip unit info: serial number, firmware versions, breaker name.
- Firmware updates
- Breaker Control – Trip / Close; QUICK-TRIP Control

Operating System:

Microsoft Windows, ideally Windows 10 and 11.

Connection:

mini-USB (cable not included)

NOTE: if AC-PRO-II is located behind a cubicle door, a USB panel mount extension was provided with the retrofit kit.

The InfoPro-AC™ software application is available for download at:

http://www.utilityrelay.com/Side_Bar/Downloads.html

12.0 Firmware Versions and Updates

To determine which firmware version is currently installed on your AC-PRO-II, use the MORE menu. See Figure F.

The InfoPro-AC application can be used to update AC-PRO-II firmware in the field using the USB port. AC-PRO-II Firmware update instructions can be found in the InfoPro-AC Help Menu. For firmware version information see the following link:

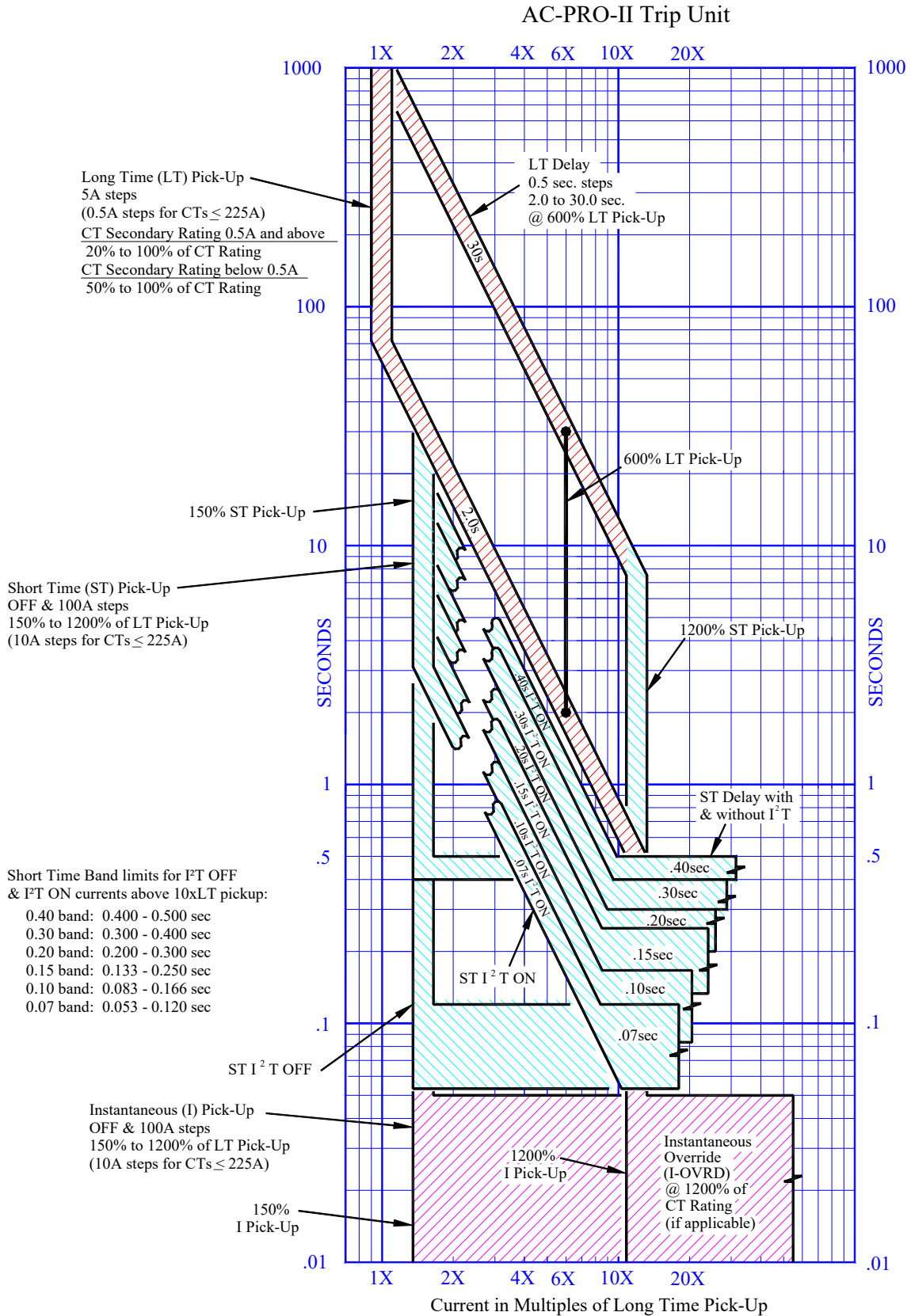
http://www.utilityrelay.com/Side_Bar/Firmware_versions.html

Utility Relay Company
10100 Queens Way
Chagrin Falls, OH 44023
www.utilityrelay.com
Phone 888-289-2864
Fax: 440-708-1177

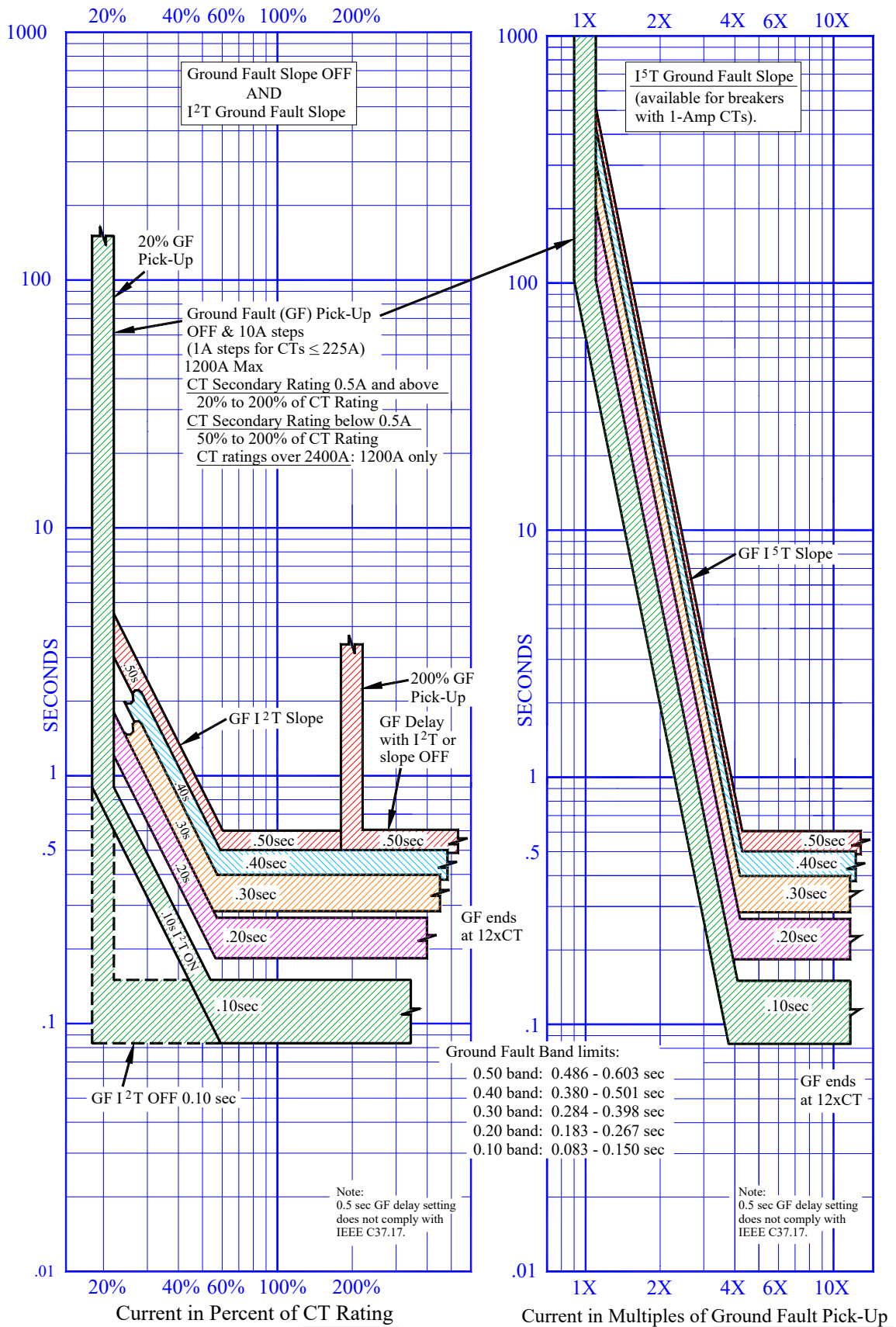
This is an abbreviated “Quick Start” Manual.
For full version of AC-PRO-II Instruction Manual, visit:
http://www.utilityrelay.com/Side_Bar/Instruction_Manuals.html



Appendix A – Time Current Curves (TCC)

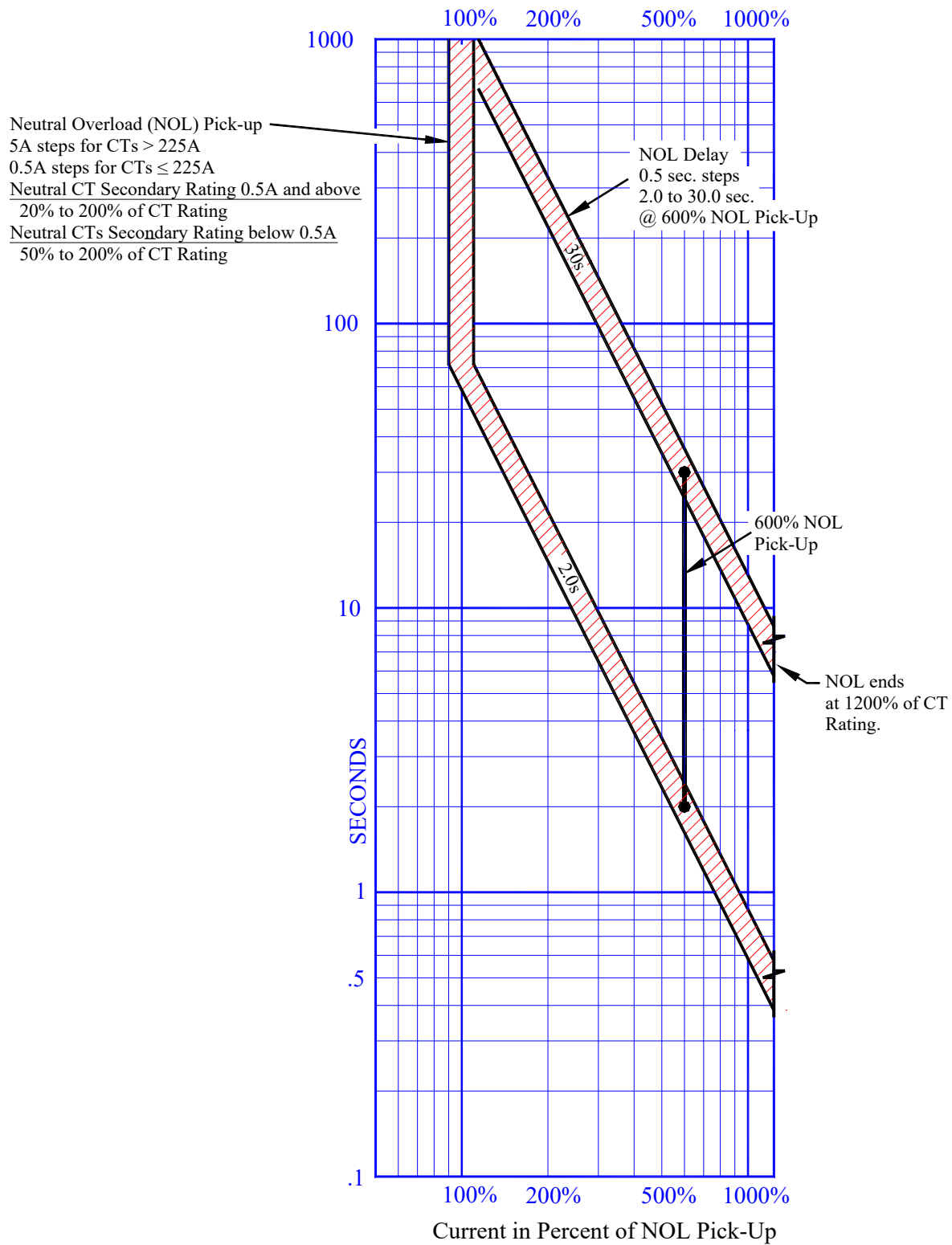


Appendix A.1: Overload TCC



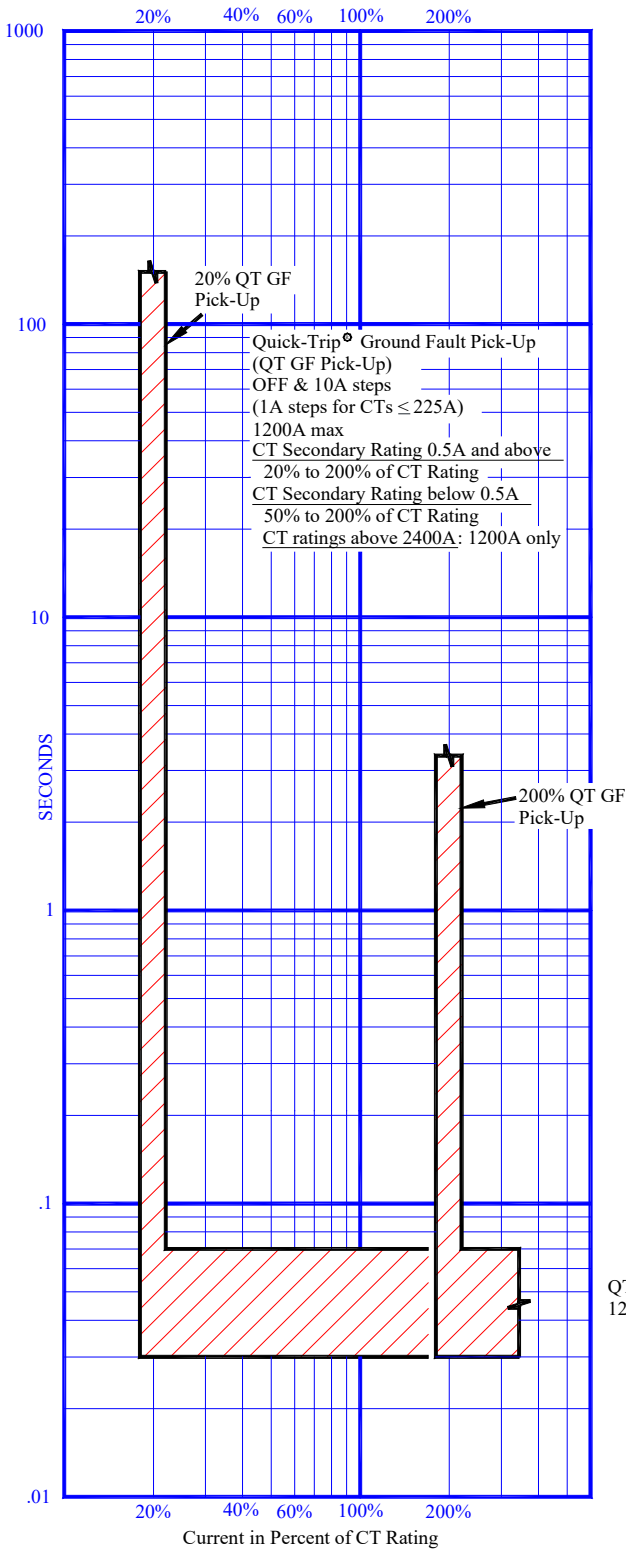
AC-PRO-II G.F. Rev 2.01 08/15/2017

Appendix A.2: Ground Fault (GF) TCC

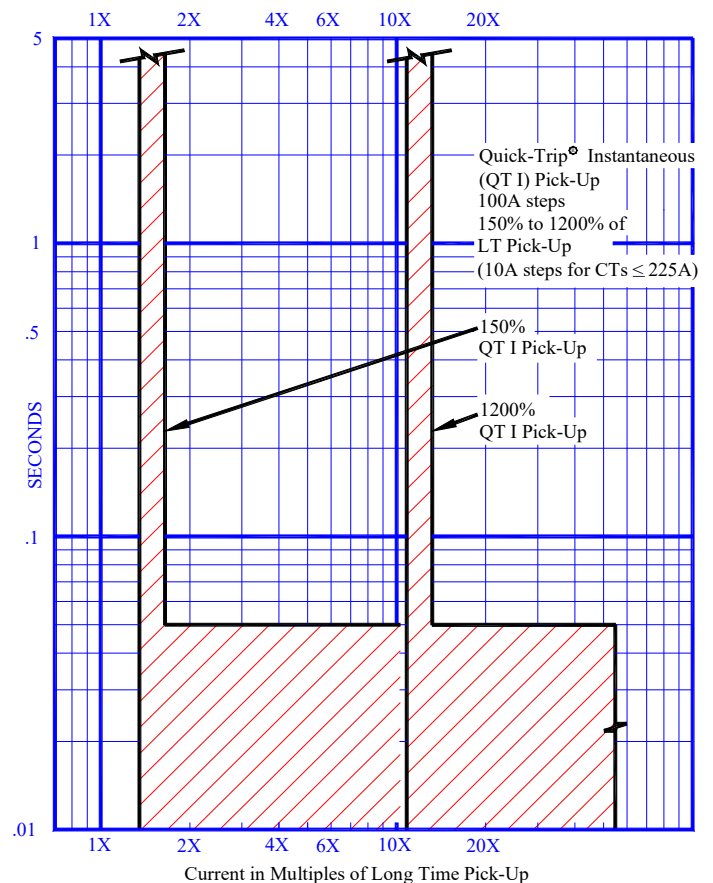


AC-PRO-II NOL Rev 1.2 07/14/2015

Appendix A.3: Neutral Overload (NOL) TCC
 Firmware prior to V.4.0



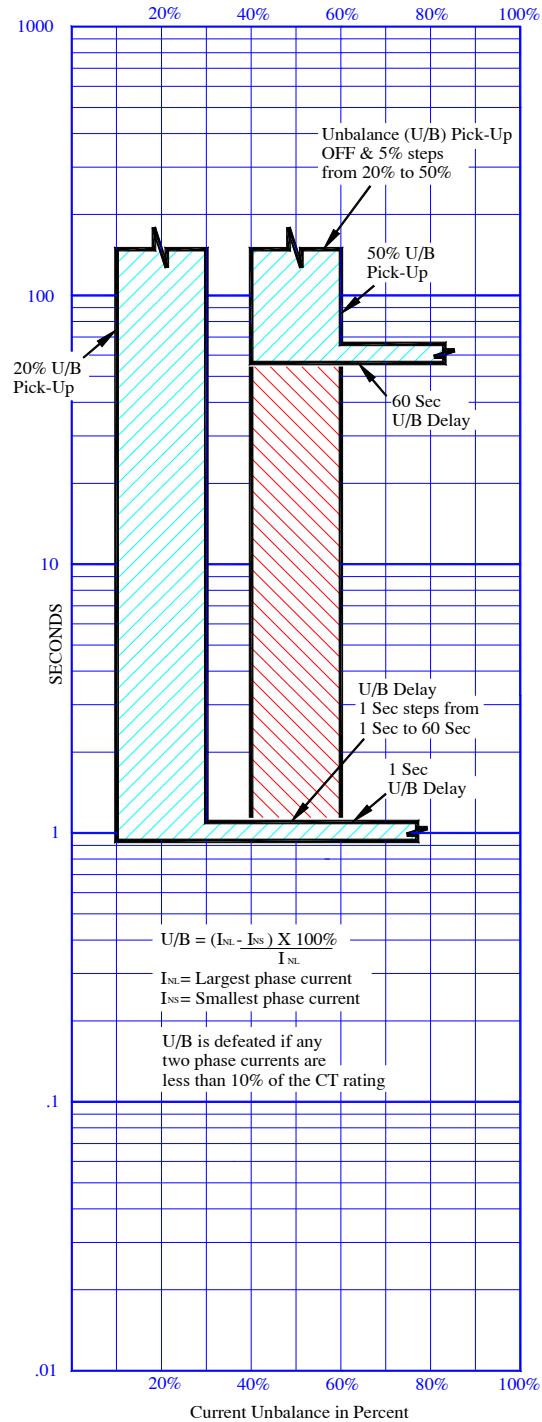
Quick-Trip® Ground Fault Time Current Curve



Quick-Trip® Instantaneous Time Current Curve

AC-PRO-II Q.T. Rev 1.02 01/15/2015

Appendix A. 4: QUICK-TRIP Ground Fault and QUICK-TRIP Instantaneous TCCs



Appendix A. 5: Phase Current Unbalance TCC

UTILITYRELAY.COM



I-AC-PRO-II-QS

URC Utility Relay Company

10100 QUEENS WAY
CHAGRIN FALLS, OH 44023
USA
888.289.2864