DATA SHEET

AC-PRO-II™

TRIP UNIT | MICRO-CONTROLLER BASED

The Latest Trip Unit Features in a Smaller More Versatile Package

NOTE: The AC-PRO-II will be available for purchase in the 4th quarter of 2014.

The AC-PRO-II is 55% smaller while including more features than the original AC-PRO.
The AC-PRO-II has the standard trip unit functions of Long Time, Short Time, Instantaneous and Ground Fault.
The AC-PRO-II also includes the following additional features.

- ❏ Neutral Overload
- ❏ Under-voltage alarm/trip
- ❏ Over-voltage alarm/trip
- ❏ Time stamping of events
- ❏ Patented sluggish breaker detection
- ❏ Wave form capture
- ❏ Configurable alarm relay

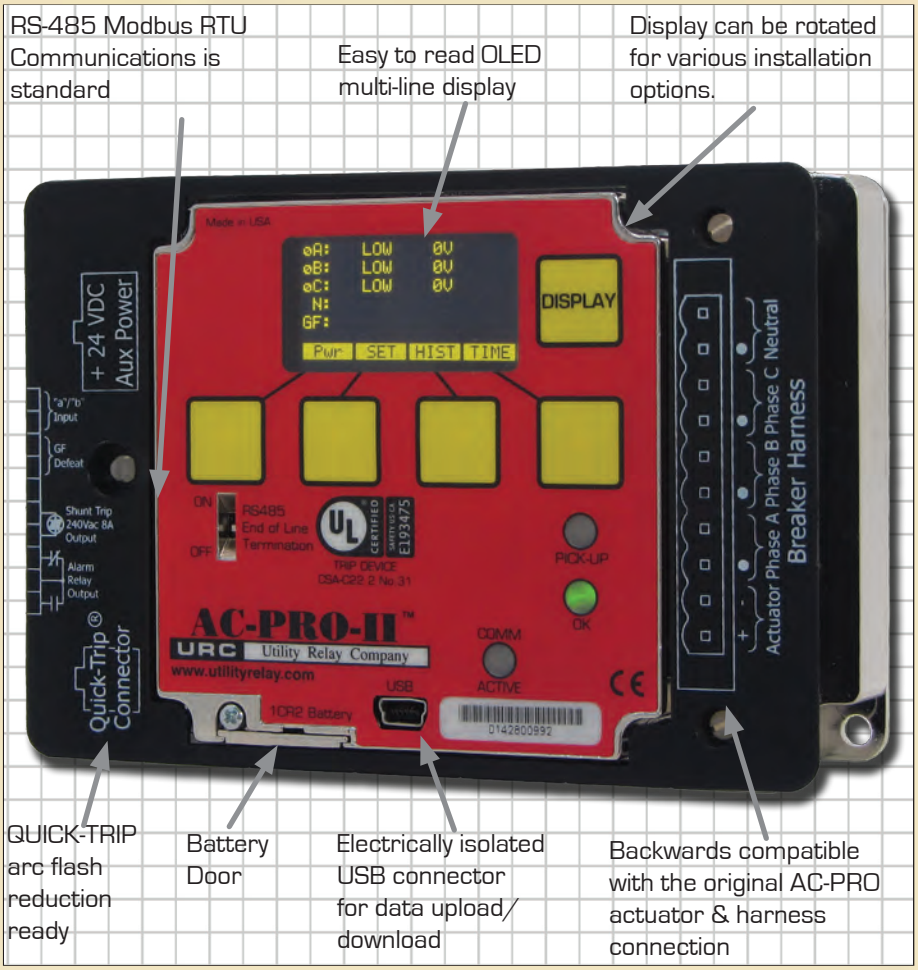
Completely Backwards Compatible
The CTs, Actuators and wiring harness from the original AC-PRO can be used with the AC-PRO-II.

Communications
RS-485 Modbus RTU communications is standard.

Programming
Settings are programmed using the OLED multi-line display and smart buttons that change their function according to the information displayed.
All of the settings are entered using simple parameters, no percentages or multipliers are required.

OLED Multi-Line Display
The easy to read multi-line display provides real time monitoring of 3-phase, neutral and ground fault currents. The display unit can be rotated to allow the trip unit to fit in a variety of different breaker configurations.

Last Trip Data
The trip units retains all of the trip data for that last 8 trip events. This data includes a date and time stamp of each event from the integrated real time clock. The waveforms are also captured for each of the 8 trip events.



USB Port
The front mounted and electrically isolated USB port allows for easy downloading of trip data and protection settings. It can also be used to upload the trip unit settings, making commissioning the trip unit much faster.

Self-Test OK Feature
The green LED indicates that the trip unit is operating properly.
This feature:

- ❏ Continuously monitors the trip unit.
- ❏ Verifies that the actuator is connected.
- ❏ Monitors the software routines.
- ❏ Monitors the micro-controller.

50Hz or 60Hz Operation
The AC-PRO-II is user selectable for 50Hz or 60Hz applications.

Construction

- ❏ Conformaly coated circuit boards
- ❏ Contamination resistant membrane keypad
- ❏ All metal nickel plated enclosure

Warranty
All AC-PRO-II's come with a 2-year limited warranty.

UL CERTIFIED SAFETY

CE

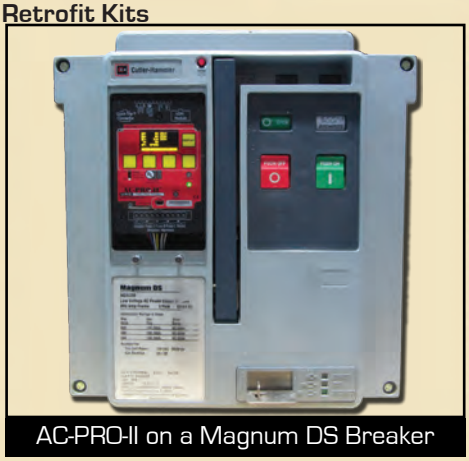
DATA SHEET

AC-PRO-II™

TRIP UNIT | MICRO-CONTROLLER BASED

The Latest Trip Unit Features in a Smaller More Versatile Package

Retrofit Kits



AC-PRO-II on a Magnum DS Breaker

Between the original AC-PRO and AC-PRO-II, approximately 4000 retrofit kits are available. The kits are complete with everything necessary for the retrofit including detailed installation instructions.

Interactive Kit Ordering Guide

Due to the sheer number of kits with various options, an interactive kit ordering guide is available to simplify finding the correct retrofit kit. If desired, orders can be placed 24/7 using the kit ordering guide.
https://urcorders2.azurewebsites.net/KOG

Power Calculations

Whenever voltage and power data is necessary, a VDM (Voltage Divider Module) can be attached to the back of the AC-PRO-II trip unit. With the VDM the following data is available on the display and through RS485 Modbus RTU communications.

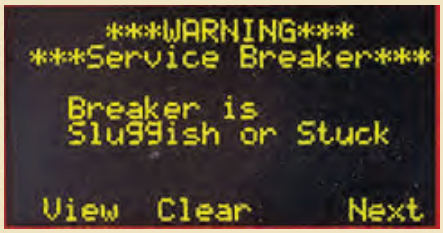
- ❑ Line-Neutral Voltages
- ❑ KW, Phase A, B, C & Total
- ❑ KVA, Phase A, B, C & Total
- ❑ Power Factor
- ❑ KWHr
- ❑ KVAHr

InfoPro-AC

InfoPro-AC is a Graphical User Interface application available for easy interface between a computer and the USB port on the AC-PRO-II. InfoPro-AC will include the following features:

- ❑ AC-PRO-II Settings. (Upload & Download).
- ❑ Waveforms on demand.
- ❑ Current, Voltage & Power readings on demand.
- ❑ Data on the last 8 trips including the waveforms.
- ❑ Trip data, settings and waveforms can be saved for later use.
- ❑ Print Settings Reports, Trip History Reports and Waveforms.

Sluggish Breaker™ Detection to Determine if the Breaker Mechanism Needs Service



The patented Sluggish Breaker operation detection captures the interruption time for a first trip. Later operations are faster because the breaker mechanism was exercised. If the mechanism operating time is excessive, the AC-PRO-II will alarm that breaker maintenance is required.

SAFE-T-TRIP™

The hand-held SAFE-T-TRIP device provides a means for an operator to safely trip a breaker without having to stand directly in front of the switchgear.
SAFE-T-TRIP can also be used in conjunction with Sluggish Breaker Detection to operate the breaker mechanism prior to removing the breaker from the cubicle.