

URC Utility Relay Company

AC-PRO-MP-II®

MICRO-CONTROLLER BASED TRIP UNIT WITH ADDED COMMUNICATIONS AND POWER METERING

Just as reliable as the AC-PRO-MP®, The AC-PRO-MP-II® is a plug-in, fully programmable, direct replacement trip unit for Merlin Gerin & Schneider Electric Masterpact MP, IEC, or UL rated Breakers. The AC-PRO-MP-II® is user programmed to replace any of the versions of STR-18M, 28D, 38S, or 58U trip units. The AC-PRO-MP-II® has the same protective functions, settings, and time current curves as the original STR.

- | | |
|--|--|
| A MECHANICALLY INTERLOCKED
POP-OUT TRIPPED INDICATOR | D QUICK-TRIP®
IS STANDARD |
| B GRAPHIC OLED DISPLAY | E FRONT MOUNTED TEST PORT |
| C "SMART" PUSH BUTTONS | F USB PORT FOR
LAPTOP & SAFE-T-TRIP® |

The AC-PRO-MP-II® provides more advanced features:

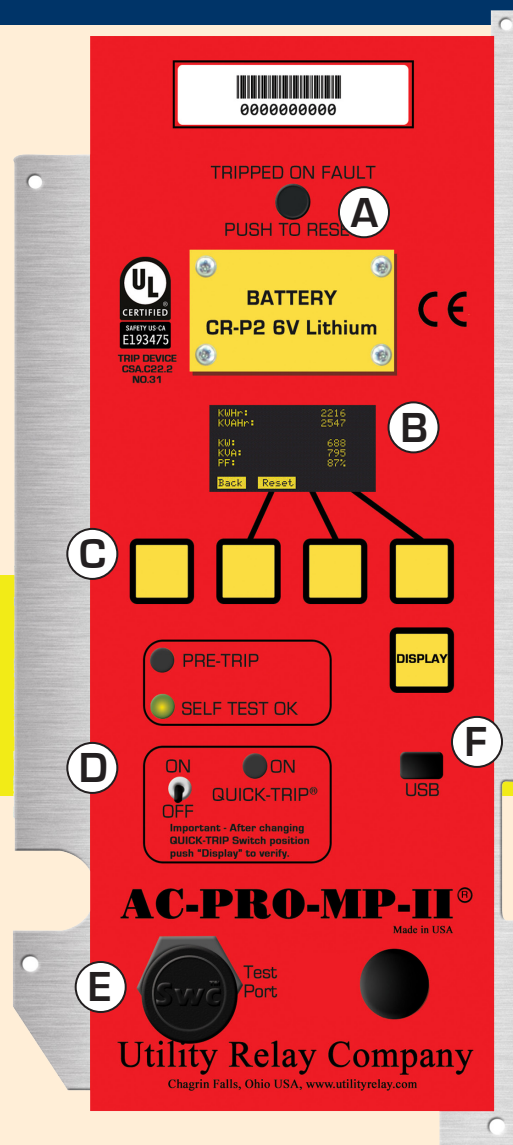
- ☐ Modbus RTU communications
(24VDC aux power required)
- ☐ Voltage, power, and energy metering
(24VDC aux power required)

Additional advanced features of the AC-PRO-MP® and the AC-PRO-MP-II® include:

- ☐ Patented QUICK-TRIP® for **arc flash hazard reduction**
 - ▶ QUICK-TRIP® instantaneous & ground fault settings are standard for arc flash reduction.
 - ▶ The QUICK-TRIP® switch is easily accessible on the face of the AC-PRO-MP-II™.
- ☐ Patented **Sluggish Breaker®** detection to help determine if the breaker mechanism needs service
- ☐ Date & time stamp of trip events
- ☐ No rating plug required
 - ▶ No physical rating plug is required. The required rating plug value is a programmed setting
- ☐ Neutral Overload Protection

The original features of the STR trip unit are still provided:

- ☐ Long-Time
- ☐ Short-Time
- ☐ Instantaneous
- ☐ Ground Fault
- ☐ Instantaneous on Closing (DINF)
- ☐ Over Temperature Trip



Information & Alarm Functions are Standard

- ☐ 2 Load monitoring settings with output contacts
- ☐ Pre-trip alarm contact & LED indicator
- ☐ Breaker tripped alarm output contact is programmable by type of trip
- ☐ Trip events are time stamped
- ☐ Waveform capture

Display, LEDs, & Push Buttons

- ☐ The OLED display is easy to read in either low or high ambient light conditions
- ☐ The "smart" push buttons have actions that are configured based on the display information
- ☐ A "SELF-TEST OK" LED indicates a properly operating trip unit
- ☐ A "PRE-TRIP" LED indicates a pending trip

Warranty

2-Year limited warranty on all AC-PRO-MP-II®'s.

REV 3.6.17

888.289.2864 | UTILITYRELAY.COM | URCSALES@UTILITYRELAY.COM



SELF-TEST Features:

The AC-PRO-MP-II™ continuously monitors:

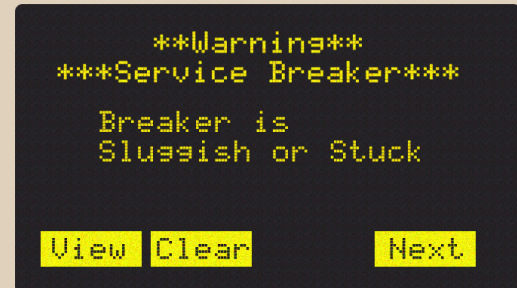
- ☐ The actuator connection
- ☐ Proper execution of the software routines
- ☐ The micro-controller & A/D converter

Last Trip Data

The AC-PRO-MP-II™ retains all of the trip data for the last 8 trip events, including waveforms. This data includes a date & time stamp of each event from the internal real time clock, the trip type, & detailed information of the phase, neutral, & ground fault currents.

Sluggish Breaker® Detection

The patented Sluggish Breaker® detection captures the mechanism time of every trip including the “first trip” and determines if a breaker mechanism is in need of service. Capturing the mechanism time of the first operation is crucial since later operations are faster because the breaker mechanism was exercised. If a mechanism’s operating time is excessive, the AC-PRO-MP-II® will alarm, indicating required maintenance.



Secondary Injection Testing

The model B-291-MP Secondary Injection test set is a single-phase test set specifically designed for testing the operation of the AC-PRO-MP-II™. The test set performs actual phase & ground fault tests, not simulated tests.

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. When needed, the SAFE-T-TRIP® plugs into the USB port on the front of the AC-PRO-MP-II™.

SAFE-T-TRIP® also helps capture the “First Trip” for Sluggish Breaker® detection by tripping the breaker prior to removing the breaker from the cubicle.



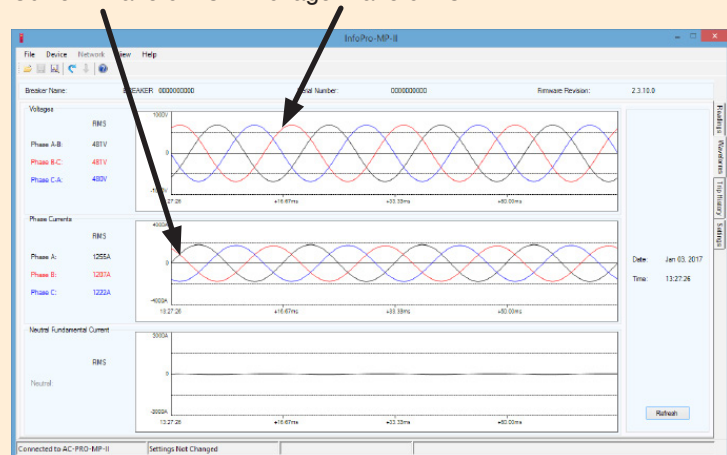
InfoPro-MP-II Software

- ☐ Software provides direct computer to trip unit interface communication using the USB port on the AC-PRO-MP-II™
- ☐ Provides an easy method to view the data provided by the AC-PRO-MP-II™ & also to download information into the trip unit

InfoPro-MP-II features:

- ☐ View the trip history from the last 8 trip events, including waveforms
- ☐ View & save the trip history & settings
- ☐ View metering data & alarm status
- ☐ Review & change settings
- ☐ View on-demand waveforms
- ☐ Firmware updates

Current Waveforms Voltage Waveforms



888.289.2864 | UTILITYRELAY.COM | URCSALES@UTILITYRELAY.COM

