

AC-PRO-MP®

MICRO-CONTROLLER BASED TRIP UNIT

Fully programmable direct plug-in replacement trip unit for Masterpact STR trip units. The AC-PRO-MP-II® is a plug-in, 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.

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|---|---|
| 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 original features of the STR trip unit are still provided:

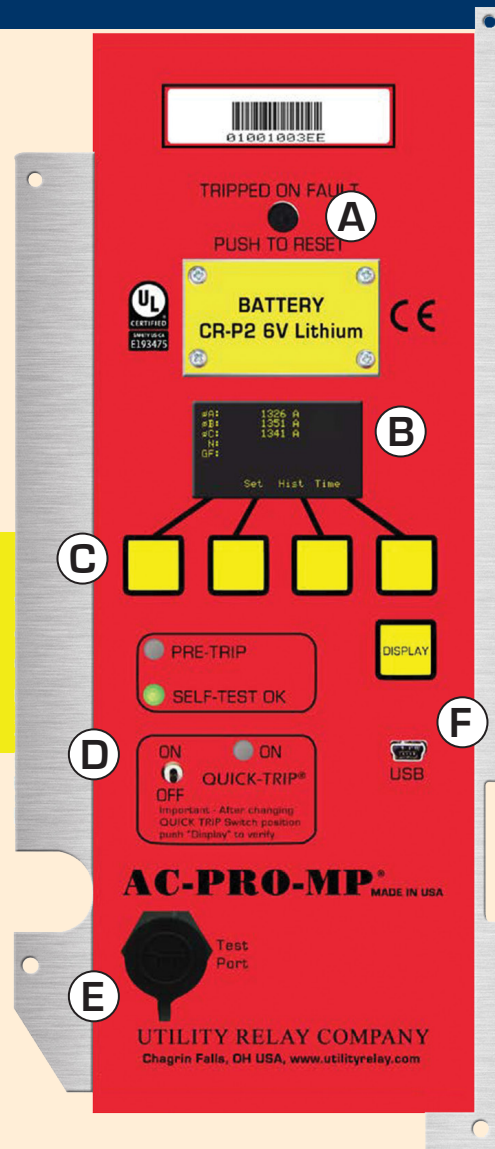
- Long-Time
- Short-Time
- Instantaneous
- Ground Fault
- Instantaneous on Closing (DINF)
- Over Temperature Trip

Additional advanced features include:

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

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®s.

REV 3.6.17



SELF-TEST Features:

The AC-PRO-MP® continuously monitors:

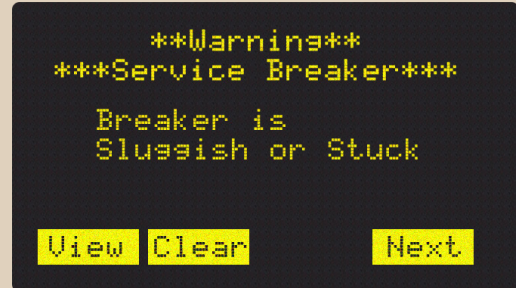
- The actuator connection
- Proper execution of the software routines
- The micro-controller & A/D converter

Last Trip Data

The AC-PRO-MP® 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® 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®. 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®.



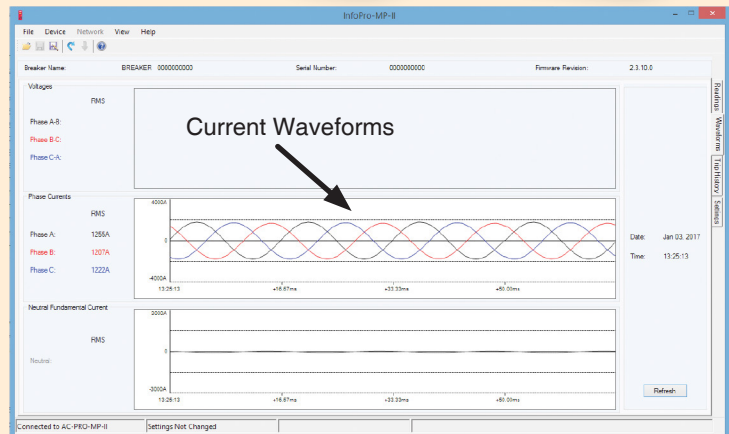
SAFE-T-TRIP® also helps capture the “First Trip” for Sluggish Breaker® detection by tripping the breaker prior

InfoPro-MP-II Software:

- Software provides direct computer to trip unit interface communication using the USB port on the AC-PRO-MP®
- Provides an easy method to view the data provided by the AC-PRO-MP® & 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



Note:
InfoPro-MP-II software is for units with front test ports.
InfoPro-MP software should be used for units with side test ports.

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