

# AC-PRO-MP-II<sup>®</sup> AC-PRO-MP<sup>®</sup>

## FEATURE-RICH MODERN TRIP UNIT

AC-PRO-MP<sup>®</sup>[-MP-II] is a plug-in, direct replacement trip unit for ST and STR trip units on Schneider Electric, Square D, and Merlin Gerin Masterpact M and MP breakers, as well as other rebranded versions such as the Moeller IZM.

AC-PRO-MP<sup>®</sup>[-MP-II] is user programmed to replace any version of STR-18M, 28D, 38S, 58U, or 68U\* trip units on IEC or UL rated breakers. AC-PRO-MP<sup>®</sup>[-MP-II] has the same protective functions, settings, and time-current-curves as the original ST or STR.

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

- LSIG protection
- Instantaneous on Closing (DINF)
- Over Temperature Trip
- Time-Current Curves (TCC)
- Information and Alarms

**Additional advanced features include:**

- Patented QUICK-TRIP<sup>®</sup> arc flash mitigation
  - QUICK-TRIP<sup>®</sup> on/off switch is easily accessible on the face of the trip units
  - QUICK-TRIP<sup>®</sup> instantaneous and ground fault settings are standard for arc flash reduction
- Patented Sluggish Breaker<sup>®</sup> detection
  - Helps determine if breaker mechanism needs service
- Date and time stamp of trip events
- No rating plug required
  - The required rating plug value is a programmed setting
- Neutral Overload Protection



\*AC-PRO-MP<sup>®</sup>[-MP-II] can replace 68U trip units if the breaker was supplied with CT sensors (2 wires) but NOT Rogowski sensors (4-wires).

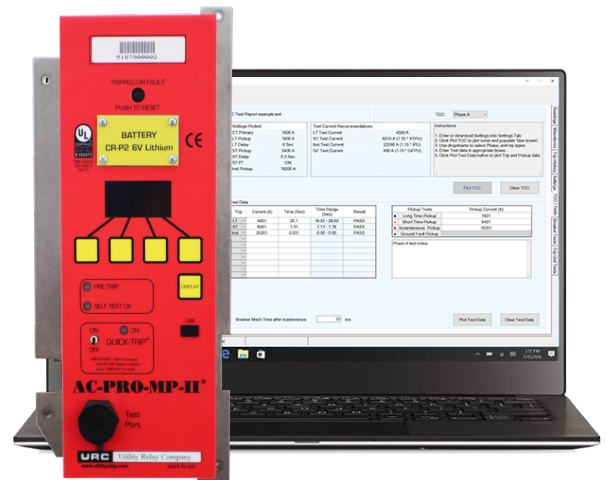


**Additional features only available on AC-PRO-MP-II<sup>®</sup>**

- Voltage Metering (line-to-line) rated for up to 600V three-phase systems
- Power and energy metering (KW, KVA, KWHr, Power Factor)
- Modbus RTU communications via RS-485 network

## Programming AC-PRO-MP<sup>®</sup>[-MP-II]

AC-PRO-MP<sup>®</sup> was designed with ease-of-installation in mind. Settings are easily programmed using either the OLED multi-line display and “smart” buttons that change their function according to the information displayed, or via the USB port with our InfoPro-MP-II software. All settings are entered using simple parameters (no percentages or multipliers required).



### SELF-TEST Features:

AC-PRO-MP®(-MP-II) continuously monitors:

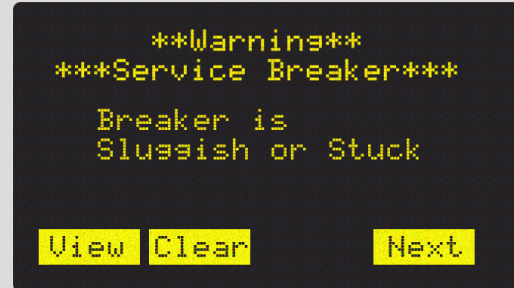
- The actuator connection
- Proper execution of the software routines
- The micro-controller and A/D converter

### Last Trip Data

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

### Sluggish Breaker® Detection

Our patented Sluggish Breaker® detection determines if a circuit breaker opens quickly enough by capturing the mechanism time of every trip. Think of Sluggish Breaker® as a check engine indicator on your vehicle. If something is wrong with your circuit breaker, causing the mechanism's operating time to be excessive, AC-PRO-MP®(-MP-II) will alarm, indicating that maintenance is required.



### 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 AC-PRO-MP®(-MP-II). The test set performs actual phase and ground fault tests, not simulated tests.

### SAFE-T-TRIP® Remote Tripping Device

The handheld SAFE-T-TRIP® device allows an operator to safely trip a breaker without standing directly in front of the switchgear. When needed, SAFE-T-TRIP® plugs into the USB port on the front of AC-PRO-MP®(-MP-II).

Note that SAFE-T-TRIP® helps capture the “first trip” for Sluggish Breaker® detection by using AC-PRO-MP®(-MP-II) to trip the breaker prior to removing the breaker from the cubicle.

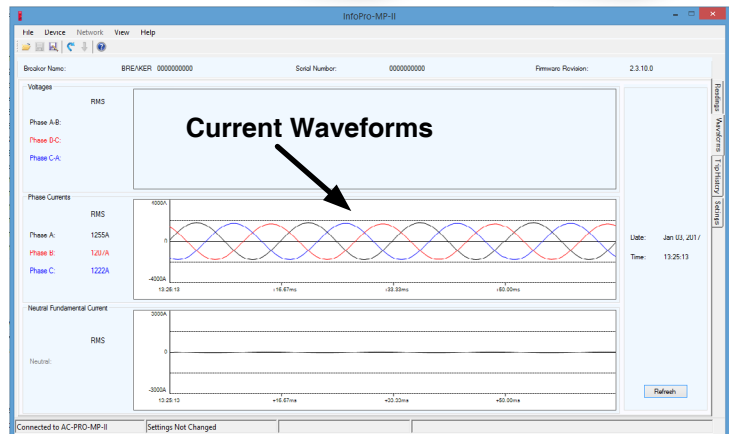


### InfoPro-MP-II Software:

- Software provides direct computer to trip unit interface communication using the USB port on AC-PRO-MP®(-MP-II)
- Provides an easy method to view the data provided by AC-PRO-MP®(-MP-II) and 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 and save the trip history and settings
- View metering data and alarm status
- Review and 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.