URC UTILITY RELAY COMPANY

AC-PRO-ML®



AC-PRO-ML® makes Micrologic replacement simple. By reusing existing OEM sensors, this true drop-in replacement installs quickly and saves both time and money. Replace failed Micrologic trip units or upgrade for expanded features without changing rating plugs or purchasing add-on hardware modules. AC-PRO-ML brings the intuitive AC-PRO® feature set to Masterpact NT, NW, and PowerPact circuit breaker families.

Building on this simple upgrade path, AC-PRO-ML delivers the safety, reliability, and modern functionality trusted from URC. Standard capabilities include LSIG protection, QUICK-TRIP® arc-flash reduction, Sluggish Breaker® detection, communications, and optional power metering and voltage protection. Advanced features such as remote trip and close, delayed manual trip and close, wireless communications, and scheduled service reminders improve safety, visibility, ease-of-use, and

Standard Features Include:

- ❑ QUICK-TRIP Arc Flash Reduction
- ❑ RS485, USB, & Wireless Comms
- ❑ Delayed Manual Trip/Close
- ❑ Scheduled Service Reminder
- ❑ Sluggish Breaker® Detection
- ❑ Power and Power Demand Metering
- ❑ Waveform Capture

Everything You Need

AC-PRO-ML retrofit kits come complete and ready to install.

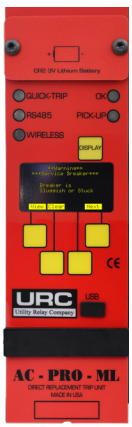
High-Quality Craftsmanship

AC-PRO-ML is made in America using first-rate components: conformal-coated circuit boards, and contamination resistant membrane keyboard. The easy-to-read multi-line OLED display provides real time monitoring of 3-phase, neutral, and ground fault currents.

Programming

Programming AC-PRO-ML is done by 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 software. All settings are entered using simple parameters. (No percentages or multipliers required)







REV 6.10.2026

When Sensor Replacement is Also Required:

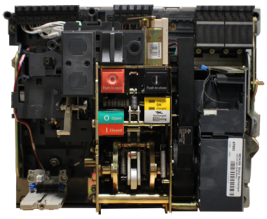
AC-PRO-NW® provides a complete modernization solution. Unlike AC-PRO-ML®, AC-PRO-NW replaces both the Micrologic trip unit and existing sensors, supplying new current transformers (CTs) designed to fit directly into the breaker's existing sensor pockets.

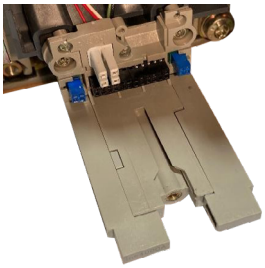
Installation follows a straightforward retrofit process: OEM components are removed, new CTs are installed using existing mounting locations and wiring paths, and the AC-PRO-NW trip unit slides onto the original bracket with actuator and VDM connections made automatically. The result is a clean, efficient upgrade that restores reliable sensing and protection without extensive modification to the breaker.



AC-PRO-NW, Current Transformers, and Installed CTs

1





Remove OEM Parts

1. Remove breaker cover
2. Disconnect trip unit top connector
3. Remove trip unit
4. Remove sensor and performer plugs
5. Existing trip unit bracket will be reused

2

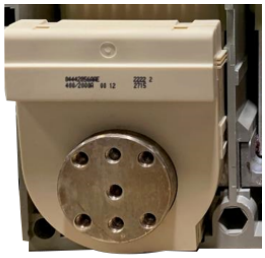


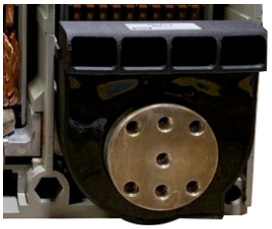


Replace Sensors & Wires

6. Remove Fingers and stabs
7. Loosen Arc Chute screws
8. Remove rear cover to access existing sensors
9. Remove sensors and wiring

3





Install new CTs

10. Install new CTs into existing sensor pockets
11. Route CT wires through existing channels
12. Reinstall back cover, stabs, and fingers

4



Install AC-PRO-NW

13. Plug in CT connector to rear of trip unit
14. Wire auxiliary connectors
15. Slide AC-PRO-NW onto OEM trip unit bracket
16. Actuator and VDM connections are automatically made
17. Secure AC-PRO-NW

AC-PRO-ML® and AC-PRO-NW® vs.

Micrologic Trip Units for MasterPact NW, NT, and PowerPact Circuit Breakers.



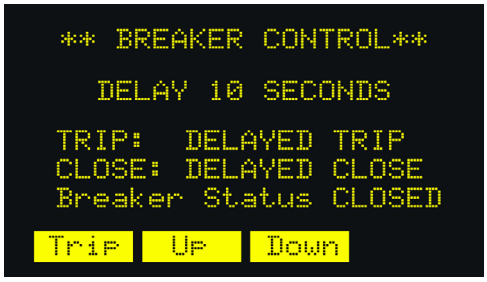
X = Standard, O = Optional	Micrologic											AC-PRO-ML® and AC-PRO-NW®	
	Standard			Ammeter				Power		Harmonics			
Feature	2	3	5	2.0A	3.0A	5.0A	6.0A	5.0P	6.0P	5.0H	6.0H	Standard	VDM
LI		X			X							LSIG and GF Alarm Standard and Field Configurable	LSIG and GF Alarm Standard and Field Configurable
LS0	X			X									
LSI			X			X		X		X			
LSIG/Ground-Fault Trip							X		X		X		
Ground-Fault Alarm/No Trip								O *	O *	O *	O *		
Adjustable Rating Plugs	X	X	X	X	X	X	X	X	X	X	X	Not Required / Programmable	Not Required / Programmable
True RMS Sensing	X	X	X	X	X	X	X	X	X	X	X	X	X
UL Listed		X	X		X	X	X	X	X	X	X	ANSI Tested/No UL	ANSI Tested/No UL
Thermal Imaging	X	X	X	X	X	X	X	X	X	X	X	Thermal Memory	Thermal Memory
LED for Long-Time Pick-Up	X	X	X	X	X	X	X	X	X	X	X	X	X
Digital Ammeter				X	X	X	X	X	X	X	X	X	X
Zone-Selective Interlocking				X		X	X	X	X	X	X	Zone Blocking	Zone Blocking
Communications				O ^	O ^	O ^	O ^	O ^	O ^	O ^	O ^	X	X
RS-485 Communications Directly to Trip Unit												X	X
Wireless Communications												X	X
LCD Dot Matrix Display								X	X	X	X	OLED	OLED
Advanced User Interface								X	X	X	X	X	X
Protective Relay Functions								X	X	X	X	X	X
Neutral Protection								X	X	X	X	X	X
Contact Wear Indication								X	X	X	X	Cycle Counter	Cycle Counter
Incremental Fine Tuning of Settings								X	X	X	X	X	X
Selectable Long-Time Delay Bands								X	X	X	X	X	X
Waveform Capture										X	X	X	X
USB Port to Connect to No-Cost Software												X	X
Arc Flash Mitigation (ERMS)								O +	O +	O +	O +	X	X
Mechanism Open Time Measurement												X	X
Scheduled Service Reminder												X	X
Delayed Trip & Close												X	X
Monitors Actuator & CTs												X	X
Voltage-Based Protection								X	X	X	X		X
Voltage, Power, & Energy Measurement								X	X	X	X		X
Power Quality Measurements										X	X		X
Manufacturing Location												USA	
Product Support / Life Cycle	Superceded by Micrologic X which is incompatible with NW, NT, and PowerPact circuit breakers.											Active 24/7	

* Additional hardware module required in addition to trip unit (M2C/M6C).
^ Multiple additional hardware modules required in addition to trip unit (BCM, I/O, IFE/M, etc.).
+ Additional hardware module required (BCM with specific firmware) and trip unit hardware version must be compatible.
Note that there is no additional installation required for the VDM version of AC-PRO-NW® or AC-PRO-ML®.
Both the standard and the VDM version install exactly the same.

Delayed Trip/Close

Our Delayed Trip/Close feature allows you to set a countdown timer for tripping and closing* your circuit breakers. While the timer counts down, you can walk away and ensure no one is within the arc flash boundary when the operation takes place. If an arc flash incident does occur, personnel are safely out of harm's way.

**Closing requires E/O Breaker*



AC-PRO-ML® screen with Delayed Trip message

InfoPro Software

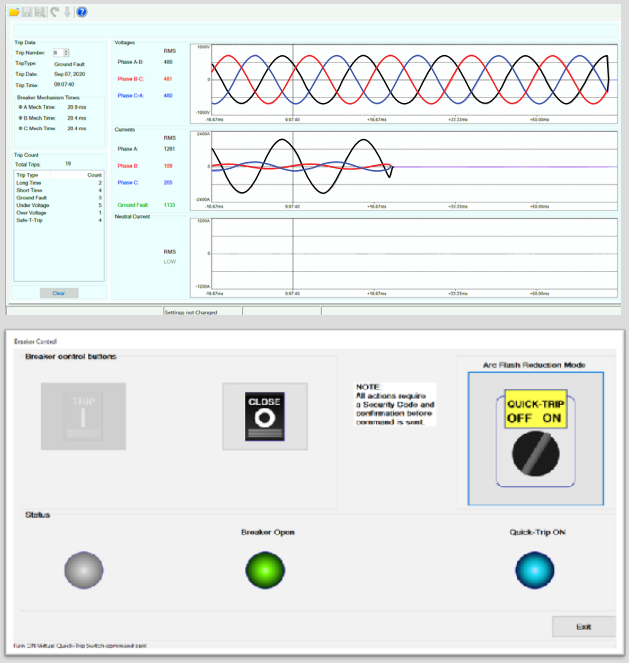
InfoPro is a Windows application that allows you to program, commission, control, and download data from AC-PRO-ML trip units. The software is available for free at www.utilityrelay.com.

InfoPro includes the following features:

- ❑ Connect between AC-PRO-ML and a PC via USB or wireless
- ❑ Save settings files for efficient commissioning
- ❑ Create test reports complete with results plotted on time-current curves (TCCs)
- ❑ Download and save waveforms, trip data, and breaker information
- ❑ Enable QUICK-TRIP remotely
- ❑ Trip and Close breakers remotely

Soft QUICK-TRIP® and Breaker Control

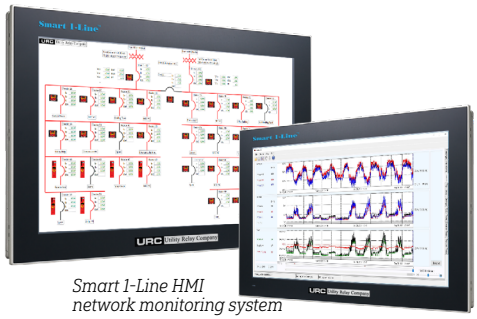
AC-PRO-ML, in conjunction with Info-Pro, allows you to remotely engage or disengage QUICK-TRIP, trip the breaker, and close E/O breakers. These features add additional layers of safety by letting you stand further away from the switchgear while performing risky breaker operations. Simply use our Smart 1-Line HMI system or InfoPro software to execute these tasks.



Waveform Capture (top) and the Breaker Control screen (bottom)

Monitor with Smart 1-Line™

Smart 1-Line is a modern, turn-key network monitoring system that delivers real-time remote visibility and control across your AC-PRO networks. Designed to simplify installation and configuration, it uses a rugged industrial computer to display a field-configurable electronic one-line diagram with comprehensive electrical, breaker, and waveform data, along with alarms and trending. Smart 1-Line supports remote breaker trip, close, and QUICK-TRIP control, and now leverages wireless connectivity to provide access to critical breaker data and controls without traditional point-to-point wiring.



Smart 1-Line HMI network monitoring system

Wireless Communications

AC-PRO-ML wirelessly communicates with both Smart 1-Line and InfoPro, providing a convenient alternative to traditional hard-wired connections. This configurable feature reduces installation time while simplifying communication with your circuit breakers. Wireless communications can be enabled and disabled directly from the trip unit interface or by using a physical switch on the back of the unit.



ORDER ONLINE

AC-PRO-ML is coming soon!
Our online Kit Ordering Guide leads you step-by-step to the perfect kit to meet your needs.
kog.utilityrelay.com