AC-PRO

AC TRIP UNIT

MICRO-CONTROLLER BASED

Complete Retrofit Kits

The AC-PRO can be supplied as part of a complete retrofit kit. Kits include all necessary brackets, mounting hardware, wiring, actuator, and installation documentation and instruction manuals.



Kits available from stock include:

General Electric

AK AKR AKRT AE AL

Westinghouse

LX

LG

DA DB DBL DK DS DSL

ITE

K KA KB KC KD KE

Siemens / Allis-Chalmers

LK

LA-Blue LA-Gold LA-15 LA-25 LA-50 LA-75 G RL RLX

Federal Pacific/Federal Pioneer

FP FPS FM DMB H1 H2 H3

Sylvania/Unelec

SSPB CN2

Roller Smith

RS BD HD

Secondary Injection Test Set

The Model B-291 test set is microcontroller based and designed to test the AC-PRO trip unit.



The test set features a selectable frequency for testing the 60Hz, 50Hz, 40Hz and 25Hz versions of the AC-PRO.

AC-PRO Direct Replacement

The AC-PRO trip unit is designed to use existing 1/2 or 1 amp CTs and operate the magnetically latched OEM actuators used with many older style electronic trip units.

Reusing the existing CTs and actuator can greatly reduce material costs and cut installation time to a fraction of that required for a complete retrofit.



Direct Replacement of a Static-Trip II on a Allis Chalmers LA-600 breaker

Trip Unit Acceptance Testing

In addition to being UL CLASSIFIED and short circuit tested in accordance with ANSI C37.59, the AC-PRO has been independently tested to, and passed the following:

- □ ANSI/IEEE C37.90.1 Oscillatory Wave Surge Test.
- □ ANSI/IEEE C37.90.1 Fast Transient Test.
- □ ANSI/IEEE C37.90.2 RFI Test.
- Capacitive Discharge Test 1.5 kA, 80 & 180 µs pulses applied to primary CT inputs superimposed on load current.
- Electrostatic Discharge Test 8 kV and 15 kV direct air discharge applied to trip unit.
- Insulation Test 2.2 kVAC, 60 Hz applied for 60 sec.
- Environmental Test Secondary injection test trip unit at -20, +23 and +65 C. Minimum exposure of eight hours at each temperature.

RS-485 Communications Port

The optional communications port uses the industry standard MODBUS RTU protocol. Multiple trip units can be daisy-chained together using a single shielded twisted pair wire.

Additional components supplied with a communications ready AC-PRO retrofit kit include: PT Module and cable, Communications Cable, cell wiring accessories, mounting brackets and hardware.





Information monitored includes:

- ☐ Currents, 3-Phase
- □ Voltages, 3-Phase, L-L & L-N
- ☐ KW, 3-Phase
- ☐ KWH, Total
- Power Factor, 3-Phase
- Breaker Position
- ☐ Last Trip Data
- ☐ Trip Counter
- □ Alarm Conditions
- ☐ Trip Unit Settings

The AC-PRO also features remote programmability, which allows trip settings to be programmed remotely from a PC. Two addressable form-C contacts are also supplied with the PT module.

With the addition of an LCI (Local Communications Interface), multiple AC-PRO trip units can communicate directly across a local area network.

The LCI Features:

- □ 4-line X 20-character display
- □ Rugged NEMA 4X enclosure
- RS-485 Input
- ☐ 10Base-T Ethernet port
- Programmable IP Address
- Embedded WEB Pages
- 2-year Limited Warranty

Call Toll Free: 888,289,2864

For additional information visit our website: www.utilityrelay.com

URC Utility Relay Company

10100 Queens Way, Chagrin Falls, 0H 44023 Phone: 440-708-1000 Fax: 440-708-1177