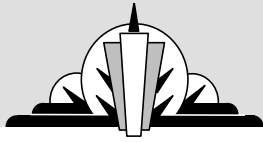


Utility Relay News

June, 1999



AC-PRO is now
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ANSI C37.59

CLASSIFIED
CULCLASSIFIED
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CSA C22.2 No.31

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AC-PRO+ Trip Unit is Compatible with most Power Monitoring Systems.

The AC-PRO+ communicating trip unit, introduced in 1998, is now available in a MODBUS version, making it even easier to communicate with most existing power monitoring systems.

The AC-PRO+ is an enhanced version of the standard AC-PRO which features an RS-485 communications port, allowing a number of trip units to be daisy-chained together on a single shielded twisted pair wire.

Because the AC-PRO+ uses industry standard MODBUS

Only the AC-PRO+ allows trip settings to be reprogrammed remotely from a PC.

protocol, no additional hardware or translation modules are required when communicating with a MODBUS-based system such

applied to primary CT inputs superimposed on typical load currents.

- **AEP Electrostatic Discharge Test.** 8 kV and 15kV direct air discharge applied to trip unit user interface and all

as Square D's PowerLogic System Manager, Power Measurement's PEGASYS, and Wonderware's InTouch.

Information available from the AC-PRO+ trip unit includes: Current, Voltage, KW, KVA, Power Factor,

kit, also includes two addressable relays which can be used to establish a "mini-SCADA system" to control electrically operated breakers

Breaker Position, Overload and Alarm Conditions, Last Trip Data, Trip Currents, and a Trip Counter.

The AC-PRO+ also features remote programability. Only the AC-PRO+ allows trip settings to be reprogrammed remotely from a PC.

The PT Module, included with each AC-PRO+ retrofit

from a central PC location. With the addition of a URC Network Bridge, AC-PRO+ trip units can communicate directly across a Local Area Network (LAN) to reduce cabling requirements.

For more information on AC-PRO+ Trip Units with Communications, contact

* AEP Testing Continued *

accessible surfaces.

- **AEP Insulation Test.** 2.2 kVac, 60 Hz voltage applied for 60 sec. between applicable circuits and ground.
- **AEP Environmental Test.** Secondary injection test trip unit at -20, 23 and 65°C.

Minimum exposure time of eight hours at each temperature. Utility Relay Company is committed to providing the most reliable, highest quality products available for retrofitting power circuit breakers.

Utility Relay Company •

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AC-PRO Passes the Test

In April the AC-PRO was tested by one North America's largest public utilities, American Electric Power (AEP) and the results were impressive.

The objective of the testing was to subject the AC-PRO to a series of qualification tests in order to evaluate both the performance and robustness of the trip unit under extreme electrical and environmental conditions.

Testing was performed at AEP's Dolan Lab in Ohio and Utility Relay is proud to report that the AC-PRO successfully

passed all of their applied tests.



The guidelines for testing were developed by AEP and were based on several industry standards as well as certain AEP testing requirements.

The complete battery of tests consisted of the following:

- **ANSI/IEEE C37.90.1 Oscillatory Wave Surge Withstand Test.** 2.5 kV oscillatory transient applied to CT & aux. power supply inputs and I/O circuits.

- **ANSI/IEEE C37.90.1 Fast Transient Test.** 5kV transient applied to CT & aux. power supply inputs and I/O circuits.
- **ANSI/IEEE C37.90.2 RFI Test.** 10V/m keying test applied at 150, 450 and 800 MHz using handheld radios.
- **ANSI C62.41 Surge Test.** 3kA, 8/20 μ s current surge lightning simulation applied to primary CT inputs superimposed on typical load current.
- **AEP Capacitive Discharge Test.** 1.5 kA, 80/180 μ s impulse

* Continued on Next Page *