



THE EASTERN SPECIALTY COMPANY

AC CURRENT PROBE

CAT. 752

FUNCTIONALITY

The **TESCO AC Current Probe** is designed to extend current measuring capabilities of the CT Ratio/Burden Tester (Catalog No. 1047). The Current Probe is built to the latest safety and performance standards, including the CE Mark. Two different hook-shaped jaws are offered, both permitting the user to “pry” or “hook” onto cables (will accept 2 x 500MCM) or even onto small bus bars.

The AC Current Probe uses hall effect technology to measure AC current. The electronics and batteries are self-contained in the handles. The output of the AC Probe is 1mV/A and 10mV/A. The Current Probe measures to 400A AC.



FEATURES

- Measurement range of 100mA to 1200A AC
- Large jaw opening accommodates conductors up to two 500MCM conductors
- Ergonomic design and easy operation
- Conforms to EN 61010, 600V, CAT III safety standard
- Low phase shift for power measurements
- Available with mV output signals
- UL Approved for Canada and the United States
- Double insulation
- CE Mark

SPECIFICATIONS

- **Nominal Range:** 1000A
- **Measurement Range:** 100mA to 1200A
- **Transportation Ratio:** Voltage output
- **Output Signal:** 1mV AC/A AC (1V AC @ 1000A)
- **Accuracy (1000A Range):**
 - ◇ **0.1 to 1A:** 2% of Reading $\pm 3\mu V$
 - ◇ **1 to 10A:** <1% of Reading
 - ◇ **10 to 100A:** $\leq 0.5\%$ of Reading
- ◇ **100 to 1200A:** $\leq 0.3\%$ of Reading
- **Phase Shift (1000A Range):**
 - ◇ **1 to 10A:** $\leq 2^\circ$
 - ◇ **10 to 100A:** $\leq 1^\circ$
 - ◇ **100 to 1200A:** $\leq 0.7^\circ$
- **Overload:** 1200A for 40 min. ON, 20 min. OFF
- **Frequency Range:** 30Hz to 5kHz; current derating above 1kHz using the formula: $1000A \times 1F$ (in kHz)
- **Load Impedance:** $>100K\Omega$ min
- **Working/Common Mode Voltage:** 600Vrms Cat. III
- **Battery:** 9V Alkaline (Approx. 50 hours of life)
- **Output Termination:** 5 ft. Lead
- **Operating Temperature:** -14° to $122^\circ F$ (-10° to $50^\circ C$)
- **Storage Temperature:** -4° to $158^\circ F$ (-20° to $70^\circ C$)
- **Jaw Opening:** 2.25" (57mm) max
- **Maximum Conductor Size:** One 1.95" x 0.19" (50 x 5mm)
- **Dimensions:** 4.37" x 8.50" x 1.77" (111 x 216 x 45mm)
- **Weight:** 1.21 lbs. (550g)

