



THE EASTERN SPECIALTY COMPANY

FLEXIBLE AC CURRENT PROBE

CAT. 361



SPECIFICATIONS

- **Current Range:** 3000A
- **Measurement Range:** 5A to 3000A
- **Output Signal:** 1mV/A
- **Crest Factor (mid-range):** 3.0
- **Phase Shift @50/60Hz:** 0.7°
- **Residual Noise:** 200mA
- **Accuracy:** 1% of Reading
- **Overload:** 1200A for 40 min ON, 20 min OFF
- **Frequency Range:** 10 to 20,000Hz
- **Working Voltage:** EN61010, 1000V Cat. III
- **Operating Temperature:** 14° to 131°F (-10° to 55°C) (sensor to 90°C), 10 to 90% RH (@50°C)
- **Minimum Bend Radius:** 0.75" (19mm)
- **Battery and Battery Life:** 9V Alkaline, approx. 150 hours of continuous use
- **Good Battery Indication:** Green LED
- **Electronic Overload Indication:** Red LED
- **Output:** 3/4 spaced banana plugs, optional banana plug to BNC adapter available, 6.5 ft (2m) lead from sensor to module

FUNCTIONALITY

The **TESCO Flexible AC Current Probe** is composed of a flexible sensor and an electronic module. The flexible sensor permits measurements on conductors where standard clamp-on probes cannot be used. In particular, it can be installed in tight spaces, around cable bundles, around wide or large bus bars, or even wrapped around irregular shapes. The Shape Memory feature enables the user to preshape the sensor before inserting it between or around conductors. This feature facilitates positioning the sensor around the conductor, enhances user safety, and alleviates the drooping effect associated with other flexible sensors.

The **TESCO Flexible AC Current Probe** is lightweight and does not use magnetic cores like standard transformers. The transformation principle is based on air core. It presents virtually no load to the system under test, has a low phase shift and excellent frequency response, and cannot be damaged by current overloads.

The sensor assembly is waterproof and insulated for 1000V working voltage. The TESCO Flexible AC Current Probe meets EN 61010 and is Ce marked.

The Current Probe has an mV output proportional to the current measured for direct readings of the CT Ratio/Burden Tester. The length of the flexible sensor can be selected from 24" (450mm) to 60" (1520mm). Longer lengths are also available.

FEATURES

- Accuracy 1% of Reading
- No core saturation or damage if overloaded
- Overrange LED for measurement circuitry
- EN 61010, 1000V Cat III, CE Mark
- Waterproof sensor
- 9V battery, provides typical 150 hour continuous operation
- Shape Memory for custom pre-shaping of sensor before use (no drooping)
- Very high frequency response
- Low phase shift for power measurements
- Excellent linearity
- Lightweight

