



## AC Current Transducer CT-353

### 500A AC

#### GENERAL DESCRIPTION

The CT-353 probe is built for ruggedness, versatility and ease of use. It is designed with a unique hook-shaped jaw that enables the user to "pry" into or "hook" onto cables (will accept 2 x 500kcmil) or even smaller bus bars.

#### ELECTRICAL SPECIFICATIONS

**Operating Range:** 2 to 500A  
**Measurement Range:** 5 to 500A  
**Transformation Ratio:** DC Voltage output  
**Output Signal:** 10mV DC/A AC (5V DC @ 500 AAC)

Range	Accuracy	Phase Shift
5 to 25A	5% of Reading	N/A
25 to 100A	2% of Reading	N/A
100 to 250A	1% of Reading	N/A
250 to 500A	1% of Reading	N/A

**Overload:** 700 A for 10 min ON, 30 min OFF  
**Frequency Range:** 48 to 1000Hz (error: add 2% to the ref.)  
**Working Voltage:** 600Vrms  
**Common Mode Voltage:** 600Vrms

#### MECHANICAL SPECIFICATIONS

**Dimensions:** 2.6 x 7.68 x 1.34" (66 x 195 x 34mm)  
**Weight:** 420 g (14.82 oz)  
**Jaw Opening:** 1.3" (33mm)  
**Maximum Conductor Size:** 1.18" (30mm), Max Bus Bar size: 2.48 x 0.20" (63 x 5mm)  
**Polycarbonate Material:** Handles: 10% fiberglass charged polycarbonate UL94 VO  
**Output:** 5 feet double insulated cable with non-insulated ferrules  
 Red ferrule is positive  
**Operating Temperature:** -5° to 122°F (-15° to 50°C)  
**Storage Temperature:** -40° to 185°F (-40° to 85°C)

#### SAFETY SPECIFICATIONS

- Electrical:**  
EN 61010-2-32  
600V CATIII, Pollution: 2; 300V CAT IV, Pollution: 2
- Electromagnetic Compatibility:**  
EN 50081-1 Class B; EN 50082-2 Electrostatic discharge IEC 1000-4-2;  
Radiated field IEC 1000-4-3; Fast transients IEC 1000-4-4;  
Magnetic field at 50/60Hz IEC 1000-4-8
- Double insulated

**Note: Reference conditions:**  
 23°C ± 5°K, 20 to 75% RH, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, 10Ω load.

#### ORDERING INFORMATION

**Item:** AC Current Transducer CT-353 (500A AC)

**Cat#:** 35-0049

