

CTC1536 Series of Clamp-on Current Probe

The YUANXING CTC1536 clamp-on current probe is designed for applications that are limited to intermittent current measurements where wide AC input current and frequency range are highly desirable features. With a maximum operating voltage of 600 volts and a high impact resistant housing, the CTC1536 offers superior operator protection and safety.

Specifications:

Input/ Output:

A three position switch enables the operator to select the input/ output range.

Continuous Working Current	Output	Accuracy Class
0.1A to 10A	100mV/ A	3% \pm 10mV
0.1A to 100A	10mV/ A	2% \pm 5mV
1A to 1,000A	1mV/ A	1% \pm 1mV

- **Frequency:** 10 to 100,000 Hz
- **Working Voltage:** 600V_{AC RMS} (#1)

Output:

- **Ambient Temperature Influence:**
< 0.1% per °C for temperatures from -10°C to 18°C and from 28°C to 50°C
- **Rise/ Fall Time:** < 400ms
- **Burden Resistance:** \geq 100 Kohm

Operating:

- **Operating Temperature:**
-10°C to +50°C (14°F - 122°F):
100mA - 800 A_{AC RMS} continuous
800 - 1000 A_{AC RMS} 5 minutes On,
15 minutes Off
-10°C to +30°C (14°F - 86°F)
100 mA - 1000 A_{AC RMS} continuous
- **Storage Temperature:**
-40°C to +70°C (-40°F - +160°F)
- **Relative Humidity:**
0% - 85% (10°C - 30°C)
0% - 75% (30°C - 40°C)
0% - 45% (40°C - 50°C)

Note: Accurate and linear measurements are obtained when the Ampere – Second product (average current amplitude times duration of the current pulse) is below 1.0 A-S. A-S pulses greater than 1.0 A-S might result in core saturation and reduced transformation accuracy.



Physical:

- **Opening:** 50mm (2.05")
- **Dimensions:** 216mm (8.5") x 111mm (4.4") x 45mm (1.8")
- **Weight:** 0.65 kg (1.4lbs)
- **Output Cable:** 1.5m (60")
PVC insulated lead with banana plugs
- **Case:** Designed to IEC 61010-1, IEC61010-2-032 and EN 61010-1 - Protection Class II, double or reinforced insulation requirement
Protection – IP40 (IEC 529)
Drop Test – IEC 68-2-32, 1 meter
Mechanical Shock – IEC 68-2-27, 100G

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