

- High Accuracy and Linearity
- Two-Stage, Zero Flux Design
- Passive and Active (Electronic) Operation
- Primary Currents from 5 to 500 Amperes
- 5 Amp or 1 Amp Secondary
- Open-Circuit Secondary Protection
- Models from 100:5 to 6000:5 are available

## 500A STANDARD CURRENT TRANSFORMER

### DESCRIPTION

Precision two-stage toroidal current transformers find application as the reference in determining the accuracy of instrumentation current transformers.

The better than 50ppm (0.005%) accuracy in passive operation at 0.5VA common burden (typical Comparator burden) is further improved by activating an electronic processing circuit that effectively

removes core flux caused by voltage induced secondary burden.

Battery powered electronic burden cancellation improves the accuracy by typically a factor of five approaching 10ppm (0.001%).

The primary current conductor, typically a bus-bar or flexible cable, is threaded through the centre hole with one or more turns.

Several models feature wound primary turns to facilitate operation at lower current operation.

Models are available with or without electronic burden cancellation as well as a 5 ampere or 1 ampere normalized secondary current.

### 500 AMPERE CT - AVAILABLE RATIO SETTINGS

1 Pri. Turn	2 Pri Turns	4 Pri Turns	5 Pri Turns	10 Pri Turns	100 Pri Turns
500	250	125	100	50	5

**Ratios:** Relative to 5 or 1 ampere secondary - Note: 100 Turn Primary Winding is Pre-Wound .

## 500 AMPERE CT - SPECIFICATIONS


<p><b>PASSIVE ACCURACY (5% to 200% Excitation):</b>  <b>0.5VA Burden :</b> Ratio: <math>\pm 0.005\%</math>, Phase: <math>\pm 0.3</math> minutes  <b>2.5VA Burden :</b> Ratio: <math>\pm 0.010\%</math>, Phase: <math>\pm 1.0</math> minutes</p> <p><b>ACTIVE ACCURACY (5% to 200% Excitation):</b>  <b>0.5VA Burden :</b> Ratio: <math>\pm 0.001\%</math>, Phase: <math>\pm 0.1</math> minutes  <b>2.5VA Burden :</b> Ratio: <math>\pm 0.003\%</math>, Phase: <math>\pm 0.3</math> minutes</p> <p><b>Operating Frequency:</b>                      50 Hz / 60 Hz</p>	<p><b>DIMENSIONS (W x L x H):</b>                      4" x 10" x 10" (102mm x 254mm x 254mm)</p> <p><b>Diameter of Primary Conductor Opening:</b>                      4", 102mm</p> <p><b>Weight:</b>                      20 lbs, 9 Kg</p> <p><b>Battery:</b>                      9 Volt, Alkaline</p> <p><b>Battery Life:</b>                      40 hours typical, varies as a function of Ampere-Turns and Secondary Burden.</p>
<p><b>Other Features:</b></p> <ul style="list-style-type: none"> <li>Wound 100 Turn Primary Winding</li> <li>Secondary Open-Circuit Protection</li> <li>Excessive Burden (harmonic overload / clipping) Indicator</li> <li>Active Operation On/Off Indicator</li> </ul>	

## ORDERING INFORMATION

Item	Catalog No.
500:5 Fixed-Ratio Current Transformer, Passive and Electronic.....	PMT25100-000-00
500:5 Fixed-Ratio Current Transformer, Passive.....	PMT25100-000-01
500:1 Fixed-Ratio Current Transformer, Passive and Electronic.....	PMT25101-000-00
500:1 Fixed-Ratio Current Transformer, Passive.....	PMT25101-000-01

*Please contact factory for other ratio configurations.*

## CONTACT INFORMATION

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