

PHASETEK INC.
TOROIDAL CURRENT TRANSFORMER
INSTRUCTION SHEET

DESCRIPTION:

Phasetek Inc.'s Toroidal Current Transformers are designed to provide an RF sample voltage proportional to the RF current flowing in a Conductor placed through the Toroidal Bushing. This sample voltage may be used for Antenna current monitoring or for remote current indication. Output sensitivities ranging from .25 V/A to 1.5 V/A are available (with 50 ohm termination).

INSTALLATION:

The Toroidal Current Transformer is contained in a sealed aluminum enclosure. Two, 1/4-20 mounting holes are provided on the bottom to mount and ground the unit. After the unit is securely mounted, the current carrying Conductor should be placed through the Teflon bushing and all connections tightened. For Antenna monitoring in Directional Arrays, all arrows on top of the units should be in the same direction (typically the direction of current flow). A type "N" female connector is provided to connect a 50 ohm coaxial Sampling Line.

MAINTENANCE:

Periodically, the unit should be inspected for signs of arcing, cleaned to remove any debris, and the connector connection cleaned and checked for tightness.

SPECIFICATIONS – ELECTRICAL

Operating Frequency Range:	0.5 to 2 MHz
Operating Temperature Range:	-10° C to +80° C
Load Termination:	50 Ohms
Output Magnitude Accuracy:	± 1.5%
Output Phase Accuracy:	± 2.0°
Magnitude Tracking Accuracy:	± 1.0%
Phase Tracking Accuracy:	± 1.0°
Maximum Operating Voltage:	11.5 kV @ 25° C

SPECIFICATIONS – MECHANICAL

Overall Size:	5" Wide x 2-3/8" Deep x 6" High
Output Connector:	Type "N" Female
Mounting:	(2) 1/4-20 Tapped Mounting Hole

STANDARD UNITS

Part Number	Sensitivity and Current Range
P600-201	0.25 V/A, 0-80 Amp
P600-202	0.50 V/A, 0-40 Amp
P600-203	1.00 V/A, 0-20 Amp
P600-204	1.50 V/A, 0-13 Amp