

MODEL NUMBER:

TPG400A & ICOIL-4

**Transformer with Pulse
Generator & Induction Coil**



DESCRIPTION:

The TPG400A current transform is for the typical mains frequencies of 50 Hz to 60 Hz. It is used to feed the 1 meter square induction coil (ICOIL-4). This coil setup can reach magnetic field strengths of 1000 A/m for a short time and 360 A/m consistently. It has low inductance and can be used with fast signals or one turn will need more ampere to reach fields expected by IEC 61000-4-8. The square induction coil ICOIL-4 is used to generate magnetic fields for immunity testing according to IEC 61000-4-8, IEC 61000-4-9 and IEC 61000-4-10. The side length of the ICOIL-4 is 3 feet and comes with screw terminals. The pulse generator that is built into the TPG400A had intervals of .5-5 seconds. Other time intervals can be set by manually holding the start button.

TPG400A SPECIFICATIONS

Power Requirement:	230 V. 50/ 60Hz / 16A
Max current into the Coil:	400 A
Max current (5 min):	600 A
Max current (5 sec):	1200 A
Max filed strength:	>1000 A/m
Dimensions (WxDxH):	25.6 x 31 x 19 inches
Weight TPG400A:	132 lbs

ICOIL-4 SPECIFICATIONS

Inductance:	2.9 μ H
Frequency Range:	DC- 10 MHz
Magnetic Field Stregenth at 1 coil:	9 A/m
Max continuous current:	400 A
Max current at 10 min:	600 A
Max current at center of coil:	360 a/m
Mounting tube:	86 x 7.6 inches
Weight of ICOIL-4:	9lbs
Standards:	IEC 61000-4-8, IEC 61000-4-9, IEC 61000-4-10
Connector type:	Male threads M16

CIRCUIT DIAGRAM OF TPG400A

