

# Inductance Apparatus

## Large Iron Core & Coils



### EM1972-001 Very High Inductance

#### Description:

- Large size 'U' & 'I' iron core, 35x35mm section, with clamping (similar to Dissectible Transformer), with ground surfaces for zero air gap and high efficiency.
- Coil, high inductance, with dual windings of 10,000 turns and 10,000 turns. With 4mm socket connections for banana plugs.
- Coil, high inductance, with dual windings of 2,000 turns and 15,000 turns. With 4mm socket connections for banana plugs.
- Coil, high inductance, with dual windings of 8,500 turns and 8,500 turns. With 4mm socket connections for banana plugs. NOTE: This 8,500 / 8,500 coil is not supplied in the standard kit. It must be purchased separately.

**FOR LOW VOLTAGE USE ONLY. DO NOT CONNECT TO MAINS VOLTAGES.**

Length: 180mm	Width: 120mm	Height: 200mm	Weight: 6.9kg
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Experiments in inductance, electro magnetism, transformer action, resonance, oscillation and L-R time constants may be performed with or without the iron core in place. Windings may be bucked or boosted and connected in series or parallel for various experiments.

Because of the high quality iron core with the accurate mating faces and the large number of turns on the coils, inductance in the order of 11,000 Henrys (with core) & 8 Henrys (without core) may be expected.

### **Danger !**

Even when low voltage power sources are used, high voltages can be created in the windings.

When removing any power source from the terminals of any coil, always remember that when the magnetic field collapses rapidly in the iron core, very high voltages will be generated momentarily in the winding.

### **Caution:**

Exercise caution and do not handle terminals and connections while disconnecting power source from coils.

Remember also that transformer action may generate high voltages on an unused winding of a coil, or perhaps on another coil, when AC is used to energise a winding, or when the power source is suddenly removed from a coil.

**ALWAYS SUPERVISE EXPERIMENTS PERFORMED WITH THIS APPARATUS.**

Designed and manufactured in Australia