



**Product name:**  
Current Balance BIL Coil

**Product code:**  
CIVIL-ELC-115-0006



## Description

Current Balance BIL Coil

## Technical specification

The apparatus can be used to measure the force on a current carrying conductor in a magnetic field.

This current balance apparatus (BIL coil) consists of a printed circuit board coil mounted on a support handle.

The board has 2 coils – one with 5 turns and one with 10 turns, rated at 2A.

When connected to a low voltage power supply and ammeter, the balance will be deflected and the new reading can be taken.

The force on a current carrying conductor and field strength can then be calculated.

A permanent magnet should be placed on the pan of a digital balance and the BIL coil mounted in a vertical plane between the magnets.



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