



P3231
TWO COMPONENT
BALANCE

FEATURES

- ◆ Independent measurement of lift and drag by unique vertical and horizontal balance beams
- ◆ Accurate force measurement provided by two precision spring balances
- ◆ Adjustable balance weights for initial set-up
- ◆ Optional analogue load cells providing 0 to 10 Volt output

EXPERIMENTS

- ◆ Lift and Drag Force by direct measurement
- ◆ Lift and Drag coefficients and Lift Drag ratio

DESCRIPTION

Cussons two component balance features a simple unique lever system employing vertical and horizontal balance beams to provide independent measurement of lift and drag forces using precision spring balances. Adjustable balance weights allow easy initial set-up and zeroing of the system.

The spring balances may be replaced by electronic load cells supplied with Cussons P3207 Data Logging Module for Two Component Balance, to provide conditional 0 to 10 Volt analogue signals for connection to a computer or data logging system.

TENDER SPECIFICATION

Designed to measure horizontal and vertical forces and is particularly convenient for use with P3230 Two Dimensional Wind Tunnel, in order to measure, lift and drag forces on aerofoil sections.

Adjustable balance weights for free and easy movement of unit, allows zeroing adjustments to be made to balances. Lift and drag can be measured directly.