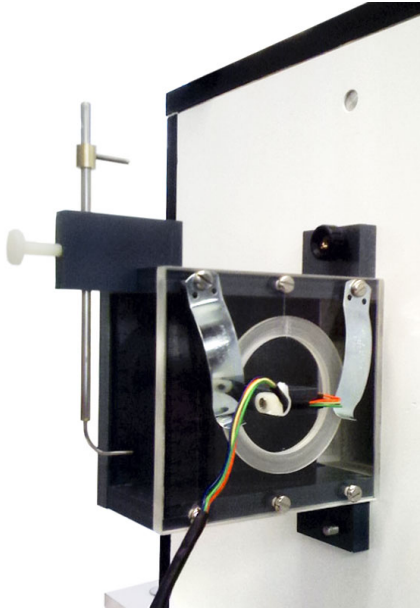




DRAG FORCE INVESTIGATION F100G



Year 1
study

Features

- Simple attachment to F100
- Very visual experiment
- Transparent Components
- Compact size
- Hydrodynamics & Aerodynamics

Description

This P. A. Hilton F100G Drag Force Investigation Module is simple and straightforward to operate. It does afford the student the opportunity to, first hand, observe qualitatively and quantitatively investigate the concept of drag by wake traverse and direct weighing, as well as, assessing the pressure distribution around a bluff body; ideally comparing the different experimental techniques, the influence of profile on drag, as well as theoretical predictions with the pre-determined quantitative experimental data.

A short duct with integral load balance allows the drag of a body to be directly measured at a range of approach velocities.

The bodies include an aerofoil, cylinder and plate. The cylinder has a radial tapping to allow investigation of the pressure distribution around the cylinder.

Related laws

- Concept of Drag by wake Traverse
- Concept of Drag by direct weighing
- Pressure Distribution
- Bluff body
- Influence of profile on drag
- Hydrodynamics
- Aerodynamics
- Numerical Quadrature
- Reynolds Number

Learning capabilities

- Determining the drag forces on basic cylindrical bodies.
- Circumferential pressure tapping
- Direct force measurement
- Wake traverse

Technical Specification

- Graduated Face: 360° in 10° intervals
- Residual Current Circuit Breaker
- Power input cable

Essential Ancillaries

- F100
- F100A

What's in the Box?

- 1 x F100G
- 1 x Pitot Tube
- 1 x Force monitoring assembly
- 1 x Digital display
- 2m plastic hose
- 1 x Ruler
- Instruction manual
- Packing List
- Test sheet

Essential Services

- 220-240 Volts, Single Phase, 50Hz (With earth/ground)

Ordering information

To order this product, please call PA Hilton quoting the following code:

F100G/230

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS