



AFAI

MULTITUBE MANOMETER

A 36-tube tilting manometer for measuring pressure



- Thirty-six tube tilting manometer for measuring pressure taken from monitoring points on models in subsonic wind tunnels
- Uses water as manometer fluid with colouring for ease of visibility
- Easy-to-read scale common to each manometer tube
- Preset incline levels for consistency and accuracy – up to five times magnification
- Pressure reading level preset by adjustable fluid reservoir – includes fine-adjustment handwheel
- Adjustable feet for precise set up

MULTITUBE MANOMETER

DESCRIPTION

A 36-tube tilting manometer for measuring pressure on models in subsonic wind tunnels and fan test sets. A backboard with graduated scale holds each manometer tube. For safety and convenience the manometer uses water as the manometer fluid. This is via an adjustable reservoir with fine-adjust handwheel held at the side of the equipment. Water colouring is included to aid visibility.

The top of each manometer tube has a connection piece for tubing to connect to pressure tapings on the equipment being monitored. The whole manometer tube assembly is mounted on a swivel. This allows it to be tilted in preset increments to increase the sensitivity of measurement. Adjustable feet enable the whole apparatus to be precisely levelled before use. The manometer is supplied with operating instructions, a filling funnel and a spirit level.

STANDARD FEATURES

- Supplied with comprehensive user guide
- Five-year warranty
- Made in accordance with the latest European Union directives

ANCILLARY FOR

- Subsonic Wind Tunnel (AF1300, AF1450, AF1600)
- NACA0012 Aerofoil with Tappings (AF1300b, AF1450b)
- Boundary Layer Model (AF1300f, AF1450f)

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Laboratory

STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

OPERATING TEMPERATURE RANGE:

+5°C to +40°C

OPERATING RELATIVE HUMIDITY RANGE:

30% to 95% (non-condensing)

SPECIFICATION

NETT DIMENSIONS AND WEIGHT:

900 x 730 x 1240 mm and 30 kg

APPROXIMATE PACKED DIMENSIONS AND WEIGHT:

0.815 m³ and 85 kg

INCLINATION:

The manometer may be inclined at the following preset angles (from vertical): 10°, 20°, 30°, 40°, 50°, 60°, 70°, 78° (60° gives x2 magnification, 78° give x5 magnification)

SCALE RANGE:

0-600 mm in 2 mm divisions

ACCESSORIES (INCLUDED):

- Bottle water colouring
- Funnel
- Spirit level
- Instructions