



AF1300R

## 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, including TecEquipment's AF1300 series. 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 tappings 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)
- NACA0012 Aerofoil with Tappings (AF1300b)
- Boundary Layer Model (AF1300f)

## 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 m<sup>3</sup> 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