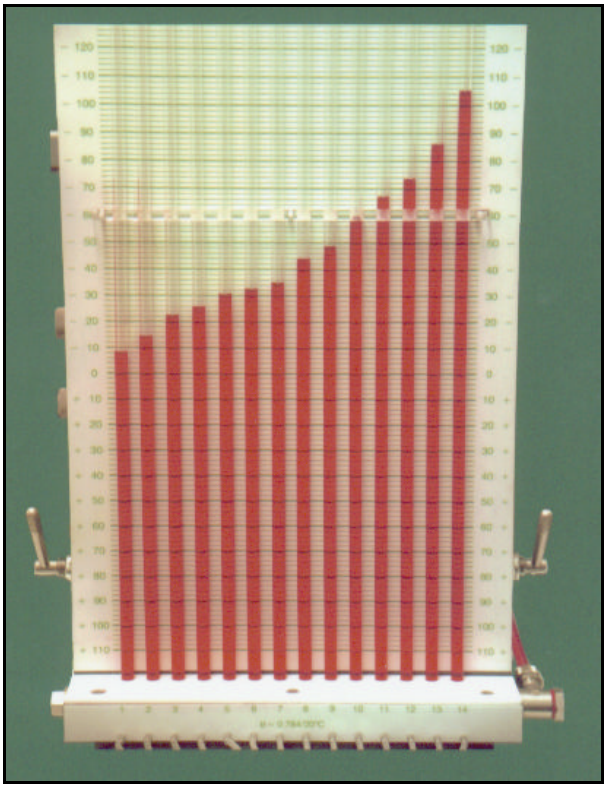
cussons
TECHNOLOGY

P3202/04
AIR FLOW BENCH ACCESSORIES



P3202 MULTITUBE MANOMETER

P3204 ANEMOMETER

P3202 MULTITUBE MANOMETER

INTRODUCTION

In certain experiments it is useful to have a visual appreciation of the pressure pattern existing along the flow path under consideration. Providing the flow path has a sufficient number of pressure tapping points, Cussons P3202 Multitube Manometer can be used to give this overall pressure picture as well as giving simultaneous measurements of up to fourteen pressures referenced to atmospheric pressure, or other datum pressure.

DESCRIPTION

The manometer, which uses blended paraffins of Specific Gravity 0.784 as the working fluid, consists of fourteen vertical tubes connected to a common manifold and from there to a large reservoir which can be raised or lowered for adjustment of the zero reading. A tapping point on the reservoir allows datum pressures other than atmospheric to be employed. The instrument is directly scaled with a range extending from -230 mm to +110 mm H_20.

P3204 ANEMOMETER

INTRODUCTION

The thermistor anemometer is a direct readout device for measuring a wide range of air velocities. It is particularly useful at very low velocities of a fraction of a metre per second where the dynamic head is very small. The anemometer can be used in the same measurement plane as the pitot-static tube on P3200 Air Flow Bench, P3203 Flow Measurement Apparatus, P3234 Flow in Pipes Apparatus, as well as with Cussons Heat Transfer and Aerodynamics experiments.

DESCRIPTION

The anemometer comprises a probe containing a heated miniature thermistor bead which is used in a current controlled circuit designed to eliminate the effects of changes in air temperature. The telescopic probe is arranged for any depth of insertion into a duct through a ½" BSP tapped boss. The analogue readout has a range of zero to 30 m/s and a temperature readout of zero to 80°C.

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