



armfield

Computer Compatible Manometer Bank



H14/2

issue 2

The Armfield H14/2 is designed to replace banks of manometers when used in conjunction with a number of Armfield products. Sixteen simultaneous pressure measurements can be displayed on a user supplied computer and the information data logged.

Two modes of operation are available:

Mode 1: 16 general purpose channels (350mm H₂O), with a common reference, suitable for monitoring both wet and dry systems.

Mode 2: 14 general purpose channels as above, plus 2 differential high sensitivity channels (125mm H₂O differential), for accurate measurement of low differential pressures (suitable for dry air only).

DESCRIPTION

The pressure monitor points are located on the front panel of the unit, with adapters to allow flexible plastic tubing to be attached. Two different sizes of tubing can be used (2mm and 3mm inside diameter). This tubing connects to the test points on the equipment being monitored.

The manometer system connects to the customer supplied computer using a USB interface. The measured pressures are displayed on the computer screen in both numeric and bar chart format.

Sophisticated software is provided with facilities to:

- *Display the data from the 16 channels in real time*
- *Record data either on operator request, or at constant sampling periods*
- *Define the data sampling periods to be used*
- *Record data onto the computer for lateral retrieval, including the option to record the data in Excel format*
- *Display tables and graphs of the captured data, with real time updates*
- *Calibrate and scale the individual measurement channels*
- *Zero the data channels before taking measurements*

SPECIFICATION

General purpose channels:

Range: 0 to 350mm H₂O

Repeatability: 0.5mm H₂O

Absolute accuracy: 0.5% FSD

Media: Wet or dry,
non-corrosive

High sensitivity channels:

Range: 0 to 125mm H₂O
differential

Repeatability: 0.1mm H₂O

Absolute accuracy: <0.5% FSD

Media: Dry air only

(all figures typical)

ESSENTIAL EQUIPMENT REQUIRED

*Personal computer, with USB interface,
running Windows 98, ME, 2000 or XP.*

SERVICES REQUIRED

AC mains:

Universal input, 100-250V ac, 50-60Hz

ORDERING SPECIFICATION

- *Electronic multiple channel pressure measurement system designed to replace liquid manometer banks.*
- *16 simultaneous measurements displayed on a PC (not supplied).*
- *Sophisticated software included, for logging, recording and displaying data.*
- *16 channels of 350mm H₂O capacity, or 14 channels of 350mm plus 2 channels of 125mm H₂O differential.*

ASSOCIATED ARMFIELD PRODUCTS

C2: *Subsonic Wind Tunnel*

F6: *Air Flow Studies*

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