

# **DMA-Aero Technical Note**

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## **Multi-Port switching option**

DMA-Aero offer as an option on many of their MPS range of air data testers the ability to have, built into the tester, the capability of Multiple Isolation Ports.

It is possible to have either 2 or 3 or 4 independent isolatable Static and Pitot ports on the front panel of the instrument instead of the normal 1x Ps and 1 x Pt.

With these remotely controllable, solenoid isolated ports, testing of aircraft with multiple probes is capable of being carried out all at the same time, saving considerably on overall test time.

Leak testing, for example, can initially be carried out with all probes being addressed, but if a leak is detected then the individual lines can be sequentially closed until it is obvious which particular line was causing the leakage.

All the operation of opening and closing the isolation valves is carried out from either the front panel keypad or the Remote Hand Held Control Unit, whichever is in use at the time. The display is placed into the switching mode by pressing the SHIFT + 5 key. The bottom row of the display then indicates the state of the port valves, an = sign indicating open, and an X sign indicating closed.

The numeric keys then can open or close the ports as desired, keys 1,2,3,4 for the Static ports and keys 5,6,7,8 for the Pitot ports.

Additionally the port switching can be controlled over the RS232 serial interface or the optional GPIB bus from a remote pc, making this valuable facility available to A.T.E. system designers.