

DMA-Aero Technical Note

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Aircraft Interfaces for the MPS range of Air Data Testers

DMA-Aero offer as additional, optional features, Aircraft data bus interfaces fitted into their air data test sets.

These interfaces then allow the user to interrogate the flight data computer and read out, onto the test set display, the values of the pitot-static parameters as seen by the aircraft, along with the simulated values being generated by the MPS and input to the ADC.

Two data bus types are available, either the ARINC 429 civil bus or the military MIL-STD 1553.

Only one of these interfaces can be installed in the MPS at any one time. In both cases the interfaces operate in the "RECEIVE" mode only, they do not transmit data to the aircraft.

The MPS instruments allow the operator to view the various pitot-static related labels on the tester display. These parameters are shown one at a time and via the scroll keys on the instruments keypad the operator can step through the various parameters. This enables the operator to see both the test pneumatic values being generated by the tester and the same value as interpreted by the aircraft air data system.

An interface connector is provided on the front panel of the MPS, in the form of a BNC plug/socket and a flexible cable for interfacing to the aircraft.