To buy, sell, rent or trade-in this product please click on the link below: http://www.avionteq.com/DMA-Aero-MPS30-Air-Data-Test-Set.aspx

AvionTEq



Air Data Test Set



MPS30

PRECISION FLIGHT LINE DIGITAL AIR DATA TEST SET

The DMA MPS30 provides a complete air data test and envelope generation capability for troubleshooting and certification of aircraft pitot-static systems.

The MPS30 is easy and fast to use by both experts and first time users. A single operator in the aircraft cockpit using a multifunction hand controller with a LCD display can perform testing and troubleshooting. All air data functions are simultaneously displayed, constant screen or menu changes are not required.

The MPS30 ADTS exceeds all current requirements for test envelope generation specifications for military and commercial fixed and rotary wing aircraft including RVSM requirements. It uses precision vibrating element transducers for maximum accuracy of all altitude and airspeed parameters.

PROGRAMMABILITY

Up to 30 user programmed test routines can be entered and stored in onboard memory to cover custom or commonly used air data test requirements and airline work cards. Routines are single key executable.

FEATURES

- Accuracy ± 3 ft at sea level
- Exceeds RVSM accuracy requirements
- Lightweight hand held control; intuitive data entry supports first time users
- Simultaneous display of all functions; screen or menu changes not required
- Low maintenance design; industry exclusive 5000 hour pump guarantee
- Low power consumption
- Internal rechargeable battery option.

SAFETY

Key MPS30 design features protect test set and instruments under test.

A pressure condition of Ps greater than Pt is prevented in both manual and automatic operation. With loss of power the test set circuit is safely isolated and can be manually vented preventing instruments and test set damage. Pre-set factory or user programmed safe limit factors prevent damage of instruments under test. Universal power supply prevents connection mistakes. The hand controller or other input devices can be switched during testing without loss of control.

MULTIPLE CIRCUIT ISOLATION

The MPS30 can be optionally configured to control isolation of up to four static and four pitot circuits remotely using the hand controller.



CALIBRATION

Calibration can be performed quickly and simply by software adjustment of four coefficients. No mechanical adjustments are required. Calibration factors are password protected.

MPS30 STANDARD SPECIFICATIONS

Operating temperature range: -5° C to $+50^{\circ}$ C, Storage: -20° C to $+70^{\circ}$ C Control capability on load volumes (cu. in.) - Static: 0 to 250, Pitot: 0 to 100. (*) abbreviations: C = civil; M = military.

	Range (*)		Resolution		Accuracy	
Parameter	Measure	Control	Measure	Control	Measure	Control
Altitude (ft)	-2,000 +80,000	-2,000 to +65,000 (80,000 ext pump)	1	1	±3 @ SL ±5 @ 30,000 ±20 @ 60,000	±2
Altitude slew rate (ft/min)	C: 0 to 6,000 M: 0 to 30,000	C: 0 to 6,000 M: 0 to 30,000	25 > 1,000 5 < 1,000	25	±10±1% of reading	±2%
Airspeed (kt) Ultra Low Speed function		C: 10 to 830 M: 20 to 1,000	1 < 50 0.1 > 50 0.1 > 20	0.1	±0.5 @ 50 ±0.1 @ >500 ULS:±0.001 inHg	±1
Mach No. Airspeed slew rate (kt/min)	0 to 4 0 to 700	0 to 4 0 to 700	0.001 10	0.001 10	< 0.002 ±10±1% of reading	±0.002 ±5%

FUNCTIONS

Pressure/vacuum generation Automatic leak check Controlled venting to ambient Altitude/airspeed input Static/dynamic/total pressure input Altitude/ Airspeed rate input Mach Number input Plus: EPR generation TAS temperature correction Offset correction Automatic leak test Audible indication when approaching set point

DISPLAY AND KEYPAD

Integral display and keypad in splashproof and shock protected hand-held terminal. LCD with backlighting displays all test parameters. Control cable 50 ft (15 meters)

CALIBRATION

One year interval, performed using software

PHYSICAL SPECIFICATIONS

Weight:	70 lb (33 kg)
Dimensions:	L 23" x W 16" x H 20"

ENVIRONMENTAL

Splashproof and shockproof CE compliant

POWER SUPPLY

Universal power supply: 90-240 VAC; 50-400 Hz.

WARRANTY

Unit	24 months
Pumps	5,000 hours

OPTIONAL CONTROL SOFTWARE

Windows based PC control software

OPTIONS

- A. 28 VDC power supply
- B. ARINC429 interface
- C. IEEE488 GPIB control (RS232 standard)
- **D. PDA** for wireless remote control (not MPS30BW)
- E. Multiple Pitot and Static Isolators controlled from keypad. 2+2, 3+3 or 4+4 (4+4 standard on MPS30BW)
- F. ADWIN PC control software
- H. Gray Code Altitude Device Readout
- M. Internal 4 hours operation battery
- Custom Pitot/Static connections available
- Lightweight HDPE plastic case w/wheels

Note: --- Specifications subject to change without notice ---



DMA-Aero 11 Old Sugar Hollow Road Danbury, CT 06812 Tel: 203 790-8371 Fax: 203 743-2051 E-mail: <u>sales@dma-aero.com</u> www.dma-aero.com Representative