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AvionTEq



MPS38B Compact Automatic Air Data Test Set

- Automatic Ps and Pt control
 - RVSM compliant
 - Integral 1000 hour pumps
 - Rugged lightweight case
 - Built-in safety features



SUPPLYING AIR DATA TEST SETS TO THE WORLD

DMA traces its origins back to 1938, mainly as a test equipment manufacturer to support European aviation requirements. Today DMA supply precision Air Data Test Sets and other aviation ground support equipment to aircraft manufacturers, repair stations and operators throughout the world.

FLIGHT LINE TESTER FOR DEMANDING APPLICATIONS

The MPS38B is a budget priced two channel, static and Qc / Pitot, digital technology hand portable Air Data Test Set incorporating many standard features normally found on more expensive test instruments. The construction is both rugged and rainproof for demanding flight line use. The unit is housed in an easily hand- carried case.

EASY INTUITIVE INTERFACE

Using logical key press routines the MPS38B is easy to use by both beginners and experts. Testing and trouble shooting can be performed via the built-in intuitively arranged color-coded keypad and large 4 x 20 character back-lit display.

All the important air data functions are simultaneously displayed, constant screen or menu changes are not required. Readings of both commanded and measured test values are displayed.

	ALTITUDE	AIRSPEED	RATE	
SIM CMD SIM CMD	15000 >15000 16.886 16.886	300.0 300.0 4.535 4.534	0 5000 0.593 0.593	SIM CMD SIM CMD
	Pst	Qc/Ptot	MACH	

ACCURACY ACHIEVED BY THE END OF SELF TEST

A precision absolute sensor is utilized for the static, altitude channel, and a precision differential transducer for the Qc/Pt, airspeed, channel. Pressure and temperature characterisation is applied to the sensors ensuring very high accuracy is achieved at all operating pressure values, without any significant warm-up time.

EXTENDED PUMP LIFE

The MPS38B is a rugged flight line instrument designed for low maintenance. The internal pressure and vacuum pumps run only on demand, when the instrument needs them operable, extending the pump life.

AUTOMATED CALIBRATION

Calibration, performed by software, is fast and simple since no mechanical adjustments are required. Calibration factors are password protected for security. The resultant accuracy of the sensors exceeds the RVSM industry requirements.



LOW POWER CONSUMPTION FOR HIGH RELIABILITY

Careful consideration during the design ensures low power consumption giving minimal internal temperature rise which consequently results in high reliability: typically 75 VA power consumption from the a.c. line.

BUILT IN SAFETY LIMITS FOR UUT PROTECTION

The MPS38B is designed for maximum safety during testing. Key DMA design features protect both the test set and the systems under test. Negative Qc, a pressure condition of Ps greater than Pt, is prevented in both manual and automatic operation. If a.c. power is lost the Unit Under Test (UUT) is safely isolated and can be manually vented preventing instrument and test set damage.

Numerous preset factory or user programmed safe limits are provided to prevent damage to the UUT. These limits can be modified by the user either temporarily or permanently, with password protection if desired.







Notes: Control capability on all load volumes (cu. in.): Static: 0 to 125 cu. in. (2 L), Pitot: 0 to 80 cu. in. (1.3 L). Larger volumes acceptable ¹ Standard mode of test set below 200 kts

STANDARD TEST FUNCTIONS

- Pressure/vacuum generation
- Automatic leak check
- Controlled venting to ambient
- Altitude/airspeed input
- Static/dynamic(Qc)/total pressure input
- Altitude/airspeed rates input
- Mach Number input
- TAS / IAS toggle, TAS temperature correction
- Altitude offset correction
- 30 user test programmed profiles of 26 steps each
- Ultra low speed (5 to 200 kts) for improved accuracy and stability
- Audible indication when approaching set point

DISPLAY AND KEYPAD

Integral display and keypad in splash proof and shock protected front panel. Back lit LCD displays all test parameters.

DISPLAYED UNITS

Altitude: ft, m Airspeed: kts, km/h, mph Pressure: InHg, hPa, kPa, Pa, psi, mmHg

CALIBRATION

One year interval, performed using software.

PHYSICAL SPECIFICATIONS

Weight:	22 lbs. (10 kg.)	
Dimensions:	L 17 x W 14 x H 7 in.	
	(L 430 x W 360 x H 180 mm)	
Connections:	Quick release Hansen fittings.	

ENVIRONMENTAL

Temperature range Operating: -5°C to +50°C Storage: -20°C to +70°C Splashproof and shockproof. CE compliant.

POWER SUPPLY

Universal power supply: 90-240 VAC; 50-400 Hz. 75 VA EPU8E External battery supply available

Representative

WARRANTY

Unit: Pumps: 2 Years 1000 running hours

OPTIONS

K. EPU8E External power unit

- Custom Pitot/Static connections available

ASSOCIATED PRODUCTS

Pitot-static adaptors Pressure indicators/transfer standards



Ongoing development results in specifications being subject to change without notice



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