



ULTRA-COMPACT DIGITAL AIR DATA TEST SET

The MPS63 is a digital technology portable Air Data Test Set incorporating a number of standard features usually found in more expensive products. It is a rugged and splashproof unit suited to demanding commercial and flight line applications.

Easy and intuitive to both novice and expert users. Testing and troubleshooting can be performed via an integrated, wider touch screen display.

Readings of both commanded and measured test values are displayed at any time.

Unit incorporates an ergonomic user-friendly interface. Intelligent software prevents input values exceeding predefined limit ranges.

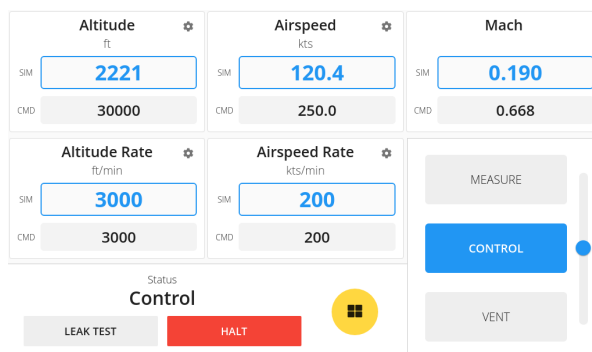
A front panel connector provides a vacuum source for suction device Adaptors that use fuselage vacuum hold down.

Low power consumption results in low heat generation enabling high accuracy and product durability, and longer operating time on battery power.

Wired/wireless remote control capabilities supported.

FEATURES

- Accuracy ± 3 feet at sea level, meets RVSM calibration requirements.
- Compact and self contained. The entire test set including pumps is housed into a single small case with a stowable handle.
- Wider and easy to read LCD backlit display with touch screen featuring a modern and ergonomic user interface.
- Simultaneous display of required parameters.
- Low power consumption
- 28VDC Power input
- Integrated long lasting battery allowing 2 hours operation
- Built-in Wi-Fi control capability
- Vacuum port holds DMA Adaptors to Fuselage
- Lightweight (5 kg – 11 lbs)



The MPS63 can be powered from AC or 28V DC power supply.

The MPS63 features temperature and pressure compensated "smart" precision achieving greater accuracy at all altitude and airspeed values.

SAFETY

Unit is designed for maximum safety during testing. Key design features protect the test set and instruments under test. Ps greater than Pt pressure conditions are always avoided. The test circuit is safely isolated during a power loss event. Preset factory or user programmed safe limits prevent damage to instruments under test.

STANDARD SPECIFICATIONS

Control capability on all load volumes (cu. in.)

Static: 0 to 1.5 L (0 to 92 cu. in.), Pitot: 0 to 1 L (0 to 62 cu. in.).

Larger volumes possible with reduced RoC

Parameter		Range	Resolution		Accuracy
			Measure	Setpoint	
Altitude(ft)		from -2,000 to +50,000	1	1	± 3 @ SL ± 7 @ 30,000 ± 18 @ 50,000
Vertical speed (ft/min)		0 to 6,000	5 @ < 1,000 25 @ > 1000	25	± 1% of setting
Static	(inHg abs)	3.42 to 32.2	0.0001	0.0001	± 0.003
	(hPa abs)	115.9 to 1,089	0.01	0.01	± 0.1
Airspeed	Standard (kts)	10 to 700	1 @ < 50 0.1 @ > 50	1	± 0.5 @ 50 ± 0.1 @ > 500
	U.L.S. (kts)	2 to 200	0.1 @ > 20		± 0.06 hPa
Mach No.		0 to 2	0.001	0.001	< ± 0.003
Airspeed slew rate (kt/min)		0 to 500	10	10	± 10 ± 1% of reading
Pitot (Qc)	(inHg diff)	0 to 30.8	0.0001	0.0001	± 0.005
	(hPa diff)	0 to 1,042	0.01	0.01	± 0.17
Engine pressure ratio		1 to 2.0 @ SL	0.001	0.001	0.001

STANDARD TEST FUNCTIONS:

- pressure/vacuum generation
- auxiliary vacuum for Adapter hold-down
- automatic leak check
- controlled venting to ambient
- altitude/airspeed input
- static/dynamic(Qc)/total pressure input
- altitude/airspeed rates input
- static/dynamic(Qc) pressure rates input
- Mach Number input
- TAS/IAS toggle, TAS temperature correction
- altitude offset correction
- user test programmed profile including up to 26 steps
- ultra low speed (5 to 200 kts) for improved accuracy and stability
- various measure units selectable
- EPR generation

DISPLAY

Splashproof and shock protected integrated front panel

LCD backlit capacitive touch screen, 178 mm (7") diagonal, all test parameters displayed

CALIBRATION

One year interval, performed using software

DISPLAYED UNITS

Altitude: ft, m, hm

Airspeed: kts, km/h, mph

Pressure: inHg, hPa, kPa, Pa, psi, mmHg, inH₂O

WARRANTY

2 Years

ENVIRONMENTAL

Temperature range

Operating: -5°C to +50°C

Storage: -20°C to +70°C.

Splashproof and shockproof

CE compliant

PHYSICAL SPECIFICATIONS

Weight: 5 kg. (11 lbs.)

Dimensions: L 300, W 250, H 120 mm
(11.8" x 9.8" x 4.7")

POWER SUPPLY

Universal power supply: 90-240 Vac; 50-400 Hz
or 28VDC

Internal battery allowing 2 hours operation

Note: --- Ongoing development results in specifications being subject to change without notice ---

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D. Marchiori srl Ground Support Equipment

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