

# MPS62 Air Data Test Set



## INNOVATIVE COMPACT DIGITAL AIR DATA TEST SET

The MPS62 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.

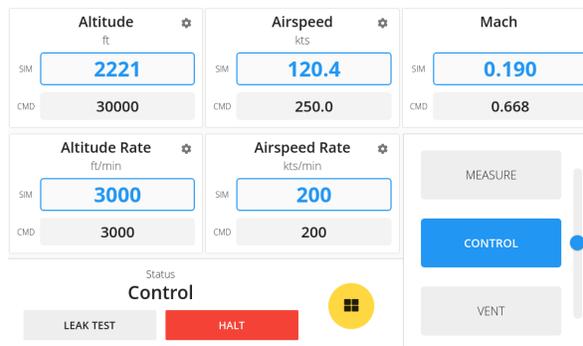
Easy and intuitive to both novice and expert users. Testing and troubleshooting is performed via an integrated next generation touch screen.

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.

## FEATURES

- Accuracy  $\pm 5$  feet at sea level.
- Compact and self-contained. The entire test set including pumps is housed into a single compact case with a stowable handle.
- Easy to read color LCD backlit display with next generation touch screen featuring a modern and ergonomic user interface.
- Simultaneous display of required parameters.
- Low power consumption
- Lightweight (6.5 kgs/ 14 lbs)



Low power consumption results in low heat generation enabling a higher accuracy and product durability.

The MPS62 features temperature and pressure compensated “smart” precision transducers achieving greater accuracy at all altitudes 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	Control	Measure	Setpoint		
Altitude(ft)	from -2,000 to +55,000	from -2,000 to +55,000	1	1	± 5 @ SL ± 12 @ 30,000 ±30 @ 50,000	
Vertical speed (ft/min)	0 to 6,000	0 to 6,000	5 @ < 1,000 25 @ > 1000	25	± 1% of setting	
Static	(inHg abs)	2.7 to 32	2.7 to 32	0.001	0.001	± 0.005
	(hPa abs)	91 to 1090	91 to 1090	0.01	0.01	± 0.15
Airspeed	Standard (kts)	10 to 700	10 to 700	1 @ < 50 0.1 @ > 50	1	± 0.5 @ 50 ± 0.1 @ > 500
	U.L.S. (kts)	2 to 200	2 to 200	0.1 @ > 20		± 0.06 hPa
Mach No.	0 to 1.5	0 to 1.5	0.001	0.001	< ± 0.003	
Airspeed slew rate (kt/min)	0 to 500	0 to 500	10	10	± 10 ± 1% of setting	
Pitot (Qc)	(inHg diff)	0 to 31	0 to 31	0.0001	0.0001	± 0.005
	(hPa diff)	0 to 1040	0 to 1040	0.01	0.01	± 0.17
Engine pressure ratio	1 to 2.1 @ SL	1 to 2.1 @ SL	0.001	0.001	0.001	

### 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
- static/dynamic(Qc) pressure rates input
- Mach Number input
- TAS/IAS toggle, TAS temperature correction
- Altitude offset correction
- User test programmed profiles 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, inH<sub>2</sub>O

### 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: 6.5 kgs (14 lbs)

Dimensions: L 420, W 220, H 334 mm  
(16.4" x 8.7" x 13.5")

### POWER SUPPLY

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

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

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