



# MODEL 6300-M3



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# Military Pitot Static Tester

NSN: 4920 01 569 1292

Specifications on back

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## Model 6300-M3 Automated Pitot Static Tester

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The 6300-M3 Automated Tester is designed to connect directly to an aircraft's Pitot and Static system. Using the small and light-weight Remote unit a user can operate the tester from the cockpit and use it to test the entire pitot and static system of the aircraft, including altimeters, climb indicators, airspeed / Mach indicators, air data computers and auto-pilots. The tester includes built-in vacuum and pressure pumps and emergency manual bleed-down valves. The operator simply connects power, and the pitot and static hoses, to make the unit operational. The high accuracy of this unit meets the latest RVSM requirements. Also, it needs to be calibrated only once a year. The use of "Profiles" makes it possible for the operator to run through a test using only a single key on the Remote unit. The wide operating temp. makes it ideal for military applications.

### Specifications

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#### Static Output

##### Pressure function

range: 0.1 to 42 inHg  
resolution: 0.001 inHg  
accuracy: 0.002 inHg

##### Altitude function

range: -4000 ft. to 100,000 ft.  
resolution: 1 foot  
accuracy: 2 ft. @ 0 ft.  
6 ft. @ 35,000 ft.  
12 ft. @ 50,000 ft.  
50 ft. @ 80,000 ft.

##### Climb function

range: 0 ft/min to 50,000 ft/min  
resolution: 1 ft/min  
accuracy: 1% of rate of climb

#### Pitot Output

##### Pressure function

range: 0.1 to 110 inHg  
resolution: 0.001 inHg  
accuracy: 0.003 inHg

##### Airspeed function

range: 0 to 1100 knots  
resolution: 0.1 knots  
accuracy: 1.5 knots @ 20 knots  
0.5 knots @ 50 knots  
<0.25 knots above 100 knots  
<0.1 knots above 300 knots  
Airspeed rate: 0 to 800 knots/min

##### Mach function

range: 0.0 to 5.0 Mach  
resolution: 0.001 Mach  
accuracy: 0.001 above 0.2 Mach

##### EPR function

range: 0 to 199  
resolution: 0.001  
accuracy: 0.001 typ.

#### "Jog" feature

Allows set-point to be increased or decreased in steps of 1 foot or 0.1 knots simply by using arrow keys.

#### "Profiles" feature

A profile of the standard set-points of an altimeter check or airspeed check can be downloaded from a computer. Such a profile allows the user to operate the unit using a single key. Up to 20 such profiles can be stored in the unit. PC-based software is included.

#### Pressure & Vacuum system

The tester includes separate pressure and vacuum diaphragm pumps for higher reliability. The pressure system includes a membrane dryer, and a filter to provide clean dry air for the entire system.

#### Remote unit

The Remote unit is the operator interface for the tester. It is small and light enough to be used in the cockpit. The tester can be turned On and Off from the Remote. All valid parameters, including altitude, climb and airspeed, are clearly displayed simultaneously on a single screen on the Remote.

#### Manual Vent

The tester includes manual metering valves to enable the system (aircraft) to be manually vented in the event of a power-loss.

#### Power requirement

90-260 VAC, 47-440 Hz. or 28 VDC  
150W (300W when heaters ON)

#### Interfaces

RS232, IEEE-488, Encoder

#### Dimensions & weights

Main unit: 22" x 14" x 9" / 44 lbs  
Remote unit: 7" x 8" x 2" / 1 lb.

#### Environmental specs:

Operating temp. -40° to 55°C  
Storage temp. -55° to 85°C  
Humidity: 5 to 95% non-condensing

*Specifications subject to change without notice*

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