



MODEL 6300



Automated Pitot Static Tester

See Reverse for Specifications

Model 6300 Automated Pitot Static Tester

The 6300 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, the Remote, 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.

Specifications

Static Output

Pressure function

range: 2 to 42 inHg
resolution: 0.001 inHg
accuracy: 0.002 inHg

Altitude function

range: -4000 ft. to 80,000 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: 100 ft/min to 25,000 ft/min
resolution: 1 ft/min
accuracy: 1% of rate of climb

Pitot Output

Pressure function

range: 2 to 60 inHg
resolution: 0.001 inHg
accuracy: 0.005 inHg

Airspeed function

range: 0 to 850 knots
resolution: 0.1 knots
accuracy: 2.4 knots @ 20 knots
1.0 knots @ 50 knots
<0.5 knots above 100 knots

Mach function

range: 0.0 to 3.0 Mach
resolution: 0.001 Mach
accuracy: 0.001 above 0.2 Mach

EPR function

range: 0 to 199
resolution: 0.001
accuracy: 0.002 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 loss of power.

Power requirement

90-260 VAC, 47-440 Hz., 150 VA

Interfaces

RS232

Dimensions & weights

Main unit: 22" x 14" x 9" / 40 lbs

Remote unit: 7" x 8" x 2" / 1 lb.

Environmental specs:

Operating temp. 0° to 50°C

Storage temp. -25° to 75°C

Humidity: 5 to 95% non-condensing

Specifications subject to change without notice

9/04



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Laversab Model 6300 Pitot Static Tester

Service Guarantees

Laversab, Inc. is pleased to offer the following service guarantees on the Model 6300 Pitot Static Tester.

1. Three-year warranty on parts and labor
2. Two-day turn-around on yearly calibration, or it is free
3. Two-day turn-around on all repairs; if the repair cannot be done in two days a loaner unit will be provided at no charge
4. Free training via phone
5. Free trouble shooting via phone or e-mail

Our goal is to provide you with service that goes beyond your expectation. These guarantees are the first step in that direction.

If you have any questions regarding these guarantees, please contact us at:
(252) 349-5847 or mblout@carolinagse.com

SPECIFICATION COMPARISON for Laversab Model 6300 Pitot Static Tester

ALTITUDE

ALTITUDE (Feet)	ACCURACY (+/- Feet)			REPEATABILITY (+/- Feet)		
	Laversab 6300	DPS 450	DPS 500	Laversab 6300	DPS 450	DPS 500
-1800	1.8	3	3	0.4	1.4	1.3
10000	2.6	4	4	0.5	1.9	1.9
20000	3.4	6	5	0.7	2.6	2.5
30000	5.2	7	7	1.0	3.8	4.7
40000	7.4	12	10	1.5	5.7	6.0
50000	12.6	19	16	2.5	8.8	8.8
60000	20.0	29	25	4.0	15.4	15.0

AIRSPEED

AIRSPEED (knots)	ACCURACY (+/- knots)			REPEATABILITY (+/- knots)		
	Laversab 6300	DPS 450	DPS 500	Laversab 6300	DPS 450	DPS 500
23	2.0	2	2.1	0.4	1	?
50	1.0	0.5	1	0.2	0.4	?
100	0.50	0.5	0.5	0.1	0.25	?
200	0.25	0.3	0.3	0.05	0.15	?
500	0.08	0.07	0.1	0.02	0.02	?
650	0.05	0.1	0.1	0.01	0.1	?

DISPLAY

	RANGE			RESOLUTION		
	Laversab 6300	DPS 450	DPS 500	Laversab 6300	DPS 450	DPS 500
Altitude	-4K to 60K feet	-2K to 60K feet	-3K to 80K feet	1 foot	1 foot	1 foot
Airspeed	0 to 650 knots	20 to 650 knots	20 to 850 knots	0.1 knots	0.1 knots	0.1 knots
Mach	0.0 to 2.0	0.16 to 2.6	0.16 to 6.5	0.001	0.001	0.001
EPR	0 to 199	0.1 to 10	1 to 10	0.001	0.001	0.001
Climb	0.1 to 25K ft/min	0 to 6K ft/min.	0.1 to 15K ft/min	1 Ft/min	1 Ft/min	1 Ft/min
Ps	2 to 42 inHg	1 to 40 inHg	0.1 to 40 inHg	0.001 inHg	0.0001 inHg	0.0001 inHg
Pt	2 to 60 inHg	1 to 75 inHg	0.1 to 80 inHg	0.001 inHg	0.001 inHg	0.001 inHg
Qc	-40 to 58 inHg	1 to 74 inHg	-39.7 to 50.2 inHg	0.001 inHg	0.0001 inHg	0.0001 inHg

SPECIFICATION COMPARISON for Laversab Model 6300 Pitot Static Tester

DISPLAY

	ACCURACY			REPEATABILITY		
	Laversab 6300	DPS 450	DPS 500	Laversab 6300	DPS 450	DPS 500
Mach	0.001 above 0.2 Mach	< 0.005	0.005	0.001 typ.	0.001 to 0.005	?
EPR	0.002 typ.	< 0.005	+/- 1 count of display	0.001 typ.	+/- 1 count of display	+/- 1 count of display
Climb	1% of value	2% of value	1% of value	0.50%	0.50%	0.50%
Ps sensor	0.002 inHg	0.003 inHg	0.0015 Rising to 0.003 inHg	0.0004 inHg	0.0015 inHg	0.0015 inHg
Pt sensor	0.005 inHg	0.007 inHg	0.003 Rising to 0.008 inHg	0.001 inHg	0.0015 Rising to 0.005 inHg	0.0015 Rising to 0.005 inHg

OTHER SPECIFICATIONS

	Laversab 6300	DPS 450	DPS 500
Profiles	Yes	No	Yes
Stability over 12 months	0.005%	0.005%	0.01%
Calibrated Temp. range	0 to 45C	5 to 35 C	5 to 35 C
Operational Temp. range	0 to 45C	0 to 50C	0 to 50C
Storage Temp. range	-25 to 75C	-20 to 70C	-40 to 70C
Dimensions	9.0"H x 22"W x 14"D	14.0"H x 20.5"W x 10.4"D	13.0"H x 30.0"W x 17.5"D
Weight	36 lbs.	33 lbs.	77 lbs.
Power requirements	90-260 VAC 47-440 Hz, 150 VA	90-132 VAC, 47-440 Hz, 200VA	88-260 VAC 47-440 Hz, 500VA