LAVERSAB

MODEL 6150

Digital Air Data & Leak Tester

Specifications on back

Model 6150 Digital Air Data Leak Tester

The 6150 Tester connects directly to an aircraft's Pitot and Static system. It allows the user to simulate altitude, airspeed and VSI and also to perform leak checks on both the Pitot and Static systems of an aircraft. The high accuracy of the digital transducers used in the tester makes it suitable for performing leak checks on RVSM-capable aircraft. The tester has built-in, high-capacity vacuum and pressure pumps that make it capable of handling leak-checks on any type of aircraft, including wide-body transport and cargo aircraft. Leak values are clearly displayed in 1, 3 and 5 minute intervals. Several protection features are included in the tester to reduce the possibility of damage to the aircraft instruments. The solid-state transducers are immune to damage due to pressure surges. The tester requires no maintenance and needs to be calibrated only once a year.

Specifications

Static Port

Accuracy : 0.008 inHg

8 ft. @ 0 ft.
24 ft. @ 35,000 ft.
48 ft. @ 50,000 ft.

Range : -2000 to 60,000 ft.

Resolution : 1 foot

Climb : 0 to 10,000 ft/min

Leak Resolution : 1 ft/min

Pitot Port

Accuracy : 0.008 inHg

2.0 knots @ 50 knots
1.0 knots @ 100 knots
0.5 knots @ 200 knots
0.2 knots @ 500 knots

Range : 0 to 500 knots

Resolution : 0.1 knot

Leak Resolution : 0.1 knot/min

Calibration Interval: 1 year

Power requirement

90-260 VAC, 47-440 Hz, 50VA

Dimensions & weight

18" x 12" x 7" / 18 lbs

Environmental specs:

Operating temp. 0° to 50°C
Storage temp. -40° to 75°C
Humidity: 5 to 95% non-condensing

Features

- Static output can be displayed in Feet, Meters, inHg or mbar.
- Pitot output can be displayed in knots, kmph, inHg or mbar.
- Protection against over-range of altitude (high and low)
- Protection against over-range of airspeed (high and low)
- Protection against negative airspeed (even during power-loss)
- Protection against excessive leak rates
- Solid state transducers are not damaged by pressure surges
- Precision Metering valves allow very fine control of altitude, VSI and airspeed
- Pressure and Vacuum pumps are integral to the unit so no manual pumping is required
- High capacity vacuum and pressure pumps are capable of overcoming large leaks on any aircraft.
- Leak checks on Pitot and Static systems are done simultaneously
- During Leak Check, actual altitude, VSI and airspeed are constantly displayed
- Actual values and Accumulated leaks of altitude and airspeed are displayed for 1, 3 and 5 minute periods
- Cross-bleed and Vent valves allows easy venting to "Ground"
- Unit can be operated on aircraft power (110 VAC/400 Hz)
- No warm-up time
- No Maintenance required other than yearly calibration
- Extremely simple two-point calibration done in inHg

Specifications subject to change without notice

9/08

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LAVERSAB

MODEL 6300

Automated Pitot Static Tester

Specifications on back

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, 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. Also, all commands can be performed through the RS232 interface.

Specifications

Static Output

Pressure function

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

Altitude function

range:	-4000 ft. to 60,000 ft.
resolution:	1 foot
accuracy:	2 ft. @ 0 ft. 6 ft. @ 35,000 ft. 12 ft. @ 50,000 ft.

Climb function

range:	0 ft/min to 25,000 ft/min
resolution:	1 ft/min
accuracy:	1% of rate of climb

Pitot Output

Pressure function

range:	0.1 to 60 inHg
resolution:	0.001 inHg
accuracy:	0.003 inHg

Airspeed function

range:	0 to 650 knots
resolution:	0.1 knots
accuracy:	0.5 knots @ 50 knots 0.25 knots @ 100 knots 0.05 knots @ 650 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 W

Interfaces

RS232 ; IEEE-488 & Encoder optional

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^{o} to 50^{o}C
Storage temp.	-25^{o} to 75^{o}C
Humidity:	5 to 95% non-condensing

Specifications subject to change without notice

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MODEL 6300-M3

Military Pitot Static Tester

Specifications on back

Model 6300-M3 Automated Pitot Static Tester

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

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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MODEL 6300-M4

High-range Pitot Static Tester

Specifications on back

Model 6300-M4 Automated Pitot Static Tester

The 6300-M4 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 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 high altitude and airspeed range of this tester makes it ideal for use on fighter / attack aircraft.

Specifications

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 loss of power.

Power requirement

90-260 VAC, 47-440 Hz. ; 150W

Interfaces

RS232 ; IEEE-488 & Encoder optional

Dimensions & weights

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

Environmental specs:

Operating temp.	0^{o} to 50^{o}C
Storage temp.	-25^{o} to 75^{o} C
Humidity:	5 to 95% non-condensing

Specifications subject to change without notice

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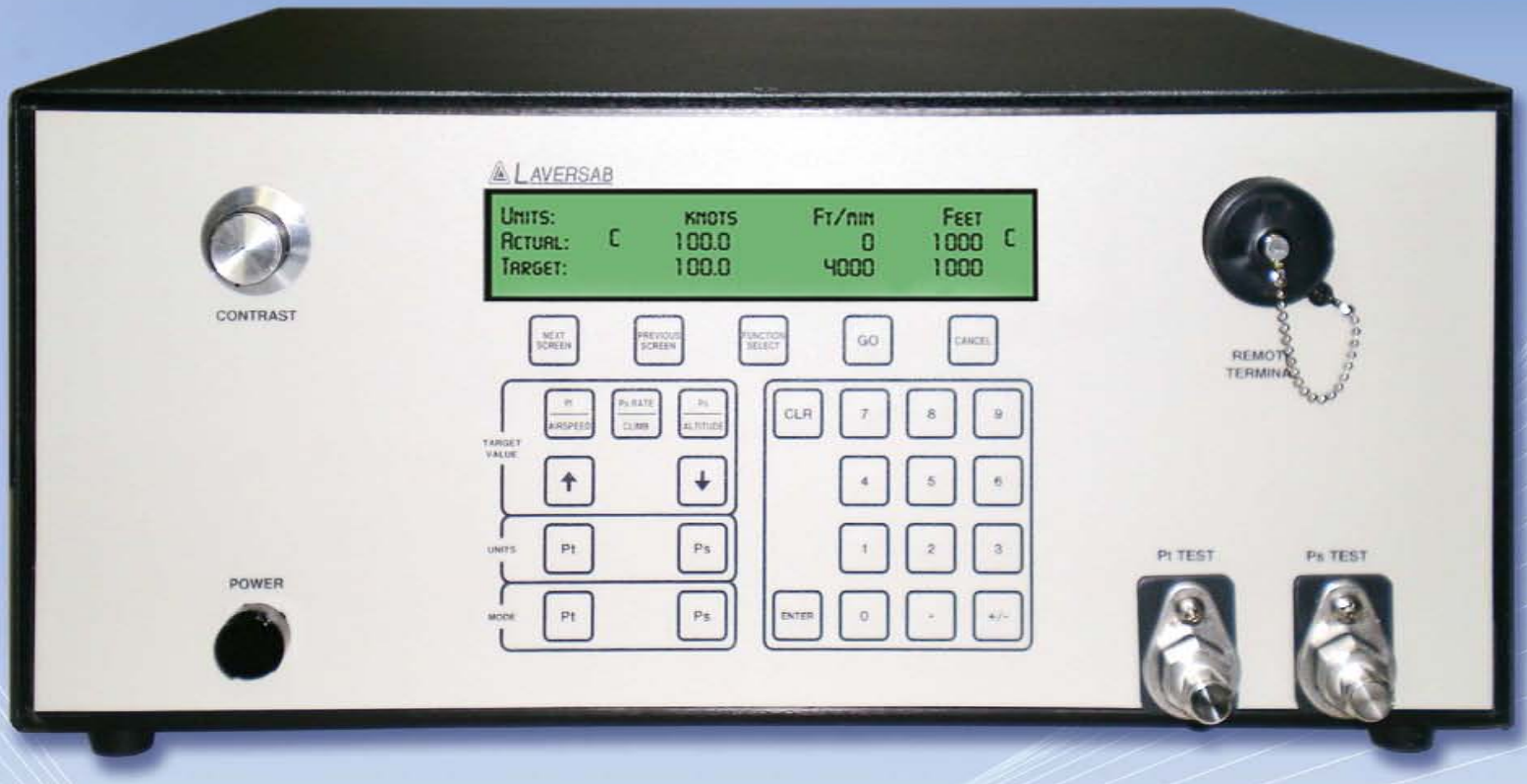
MODEL 6500



Automated Air Data Test Set

Specifications on back

Model 6500 Automated Air Data Test Set

The 6500 Air Data Test Set requires only a pressure source and a vacuum pump and is extremely simple to use. It can be used to test and calibrate altimeters, airspeed / Mach indicators, Climb indicators, Flight data recorders, Air data computers, and EPR indicators. 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 front panel keypad of this unit. The 6500 is easy to use, accurate and reliable.

Specifications

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

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:	0.002 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.

Vacuum requirement

Vacuum pump should be capable of generating a vacuum at least 10,000 ft. higher than the max. required altitude.

Pressure requirement

Dry Air (No Nitrogen) at 35 psig. with a regulator dedicated to this unit.

Power requirement

90-260 VAC, 48-400 Hz., 100 watts

Interfaces

RS232 and IEEE-488
Model 6505 Remote Unit optional

Dimensions & weight

6.5" high x 15.5" wide x 17.0 deep / 20 lbs.
19-inch rack-mount kit optional

Environmental specs:

Operating temp.	0^{o} to 50^{o}C
Storage temp.	-25^{o} to 75^{o}C
Humidity:	5 to 95% non-condensing

Specifications subject to change without notice

1/04

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LAVERSAB

MODEL 6500-PVS

Pressure / Vacuum System

Specifications on back

Model 6500-PVS Pressure / Vacuum System

This compact unit is designed for use with the Laversab Model 6500 Automated Air Data Calibrator. It provides the Dry Air pressure supply and vacuum supply required for the proper operation of the 6500. The unit requires no scheduled maintenance since it uses piston and diaphragm pumps. It runs on Universal AC power and comes with hoses to connect to the 6500.

Specifications

- Pressure Source: Dry Air up to 50 psig
  Maximum free-flow rate of 15 liters/min.
  Air is filtered using 2 micron filter.
  Zero-maintenance dryer included in the unit.
  Dry Air output has a dew point of lower than -20°C
- Vacuum Source: Maximum vacuum of 29.8 inHg
  Maximum flow rate of 10 liters/min
- Optimized for operation with Model 6500
- Hoses and fittings to connect to Model 6500 are included.
- Operating Power : 90-260 VAC, 47-63 Hz, 100 VA
- Operating Temperature: 0°C to 40°C
- Storage temperature : -25°C to 75°C
- Weight : 15 lbs
- Dimensions : 18.5" x 12" x 6.1"

Specifications subject to change without notice

3/07

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LAVERSAB

MODEL 6600

Pitot Static Tester: 3-Outputs

Specifications on back

Model 6600 Automated Pitot Static Tester with 3 Outputs

The 6600 Automated Tester is designed to connect directly to an aircraft's Pitot and Static system. The tester has one Static output, one Pitot output and a third Differential output. Each output has two ports for easy hose connections. 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 high accuracy of this unit meets the latest RVSM requirements. Also, it requires no maintenance other than 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:	0.1 to 42 inHg
resolution:	0.001 inHg
accuracy:	0.002 inHg

Altitude function

range:	-4000 ft. to 60,000 ft.
resolution:	1 foot
accuracy:	2 ft. @ 0 ft.
	6 ft. @ 35,000 ft.
	12 ft. @ 50,000 ft.

Climb function

range:	0 ft/min to 25,000 ft/min
resolution:	1 ft/min
accuracy:	1% of rate of climb

Pitot Output

Pressure function

range:	0.1 to 60 inHg
resolution:	0.001 inHg
accuracy:	0.003 inHg

Airspeed function

range:	0 to 650 knots
resolution:	0.1 knots
accuracy:	0.5 knots @ 50 knots
	0.25 knots @ 100 knots
	0.05 knots @ 650 knots

Mach function

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

Differential Output (referenced to Static) (Secondary Static Output)

range:	+/- 30.0 inHg
resolution:	0.001 inHg
accuracy:	0.002 inHg

"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 ; 200 W

Interfaces

RS232 ; IEEE-488 & Encoder optional

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^{o} to 50^{o}C
Storage temp.	-25^{o} to 75^{o}C
Humidity:	5 to 95% non-condensing

Specifications subject to change without notice

5/07

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