



MODEL 6150

AVERSAB



Digital Air Data & Leak Tester

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		Features		
Static Port Accuracy :	0.008 inHg 8 ft. @ 0 ft. 24 ft. @ 35,000 ft.	•	Static output can be displayed in Feet, Meters, inHg or mbar. Pitot output can be displayed in knots, kmph, inHg or mbar.	
Range : Resolution : Climb : Leak Resolut Pitot Port Accuracy :	 48 ft. @ 50,000 ft. -2000 to 60,000 ft. 1 foot 0 to 10,000 ft/min <i>ion</i> : 1 ft/min 0.008 inHg 2.0 knots @ 50 knots 1.0 knots @ 100 knots 0.5 knots @ 200 knots 0 2 knots @ 500 knots 	• • • • • • • • • • • • • • • • • • • •	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	
Range : Resolution : Leak Resolut Calibration In	0 to 500 knots 0.1 knot <i>ion</i> : 0.1 knot/min terval: 1 year	•	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	
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 temp40° to 75°C Humidity: 5 to 95% non-condensing		• • • •	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	
Storage temp Humidity:	5 to 95% non-condensing		Specifications subject to change without notice	



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MODEL 6300



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 lightweight 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		"Profiles" feature		
Pressure function		A profile of the standard set-points of an		
range:	0.1 to 42 inHg	altimeter check or airspeed check can be downloaded		
resolution:	0.001 inHg	from a computer. Such a profile allows the user to		
accuracy:	0.002 inHg	operate the unit using a single key. Up to 20 such		
Altitude function	-	profiles can be stored in the unit. PC-based software		
range:	-4000 ft. to 60,000 ft.	is included.		
resolution:	1 foot			
accuracy:	2 ft. @ 0 ft.	Pressure & Vacuum system		
	6 ft. @ 35,000 ft.	The tester includes separate pressure and vacuum		
	12 ft. @ 50,000 ft.	diaphragm pumps for higher reliability. The pressure system includes a membrane dryer, and a filter to		
Climb function		provide clean dry air for the entire system.		
range:	0 ft/min to 25,000 ft/min	D		
resolution:	1 ft/min	Remote unit		
accuracy:	1% of rate of climb	tester. It is small and light enough to be used in the		
Pitot Output		cockpit. The tester can be turned On and Off from		
Pressure function		the Remote. All valid parameters, including altitude		
range:	0.1 to 60 inHg	climb and airspeed, are clearly displayed		
resolution:	0.001 inHg	simultaneously on a single screen on the Remote.		
accuracy:	0.003 inHg	Manual Vent		
Airspeed function	C C	The tester includes manual metering valves to		
range:	0 to 650 knots	enable the system (aircraft) to be manually vented in		
resolution:	0.1 knots	the event of loss of power.		
accuracy:	0.5 knots @ 50 knots			
	0.25 knots @ 100 knots	Power requirement		
	0.05 knots @ 650 knots	90-260 VAC, 47-440 Hz : 150 W		
Mach function		Interfaces		
range:	0.0 to 3.0 Mach	RS232; IEEE-488 & Encoder optional		
resolution:	0.001 Mach	Dimensions & weights		
accuracy:	0.001 above 0.2 Mach	Main unit: 22" x 14" x 9" / 40 lbs		
EPR function		Remote unit: 7" x 8" x 2" / 1 lb.		
range:	0 to 199	Environmental specs:		
resolution:	0.001	Operating temp. 0° to 50° C		
accuracy:	0.002 typ.	Storage temp. -25° to 75° C		
"Jog" feature		Humidity: 5 to 95% non-condensing		
Allows set-point to l	be increased or decreased in			

Specifications subject to change without notice

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steps of 1 foot or 0.1 knots simply by using arrow

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keys.

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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.

Pressure function		A profile of the standard set-points	
range:	0.1 to 42 inHg	altimeter check or airspeed check can be dow	
resolution:	0.001 inHg	from a computer. Such a profile allows the	
accuracy: 0.002 inHg		operate the unit using a single key. Up to	
Altitude function	-	profiles can be stored in the unit. PC-based s	
range:	-4000 ft. to 100,000 ft.	is included.	
resolution: accuracy:	1 foot 2 ft. @ 0 ft. 6 ft. @ 35,000 ft. 12 ft. @ 50,000 ft. 50 ft. @ 80,000 ft.	Pressure & Vacuum system The tester includes separate pressure and diaphragm pumps for higher reliability. The p system includes a membrane dryer, and a provide alean dry air for the antire system	
Climb function		provide clean dry an for the entire system.	
range: resolution: accuracy:	0 ft/min to 50,000 ft/min 1 ft/min 1% of rate of climb	Remote unit The Remote unit is the operator interface tester. It is small and light enough to be use	
Pitot Output		the Demote All valid nerometers including	
Pressure function		alimb and aircraad are alaarly di	
range: resolution:	0.1 to 110 inHg 0.001 inHg	simultaneously on a single screen on the Rem	
accuracy:	0.003 inHg	Manual Vent	
Airspeed function	C	The tester includes manual metering v	
range: resolution:	0 to 1100 knots 0.1 knots	enable the system (aircraft) to be manually v the event of a power-loss.	
accuracy:	1.5 knots @ 20 knots 0.5 knots @ 50 knots <0.25 knots above 100 knots <0.1 knots above 300 knots	Power requirement 90-260 VAC, 47-440 Hz. or 28 VDC 150W (300W when heaters ON)	
Airspeed rate:	0 to 800 knots/min	Interfaces	
Mach function		RS232, IEEE-488, Encoder	
range:	0.0 to 5.0 Mach		
resolution:	0.001 Mach	Dimensions & weights Main anglish, 22° and 14° and 0° (4.4.1)	
accuracy:	0.001 above 0.2 Mach	Main unit: $22 \times 14 \times 9 / 44 \text{ los}$ Demote unit: $7" \times 9" \times 2" / 1 \text{ lb}$	
EPR function		Remote unit: $7 \times 8 \times 2 = 7 \times 10$.	
range:	0 to 199	Environmental specs:	
resolution:	0.001	Operating temp. -40° to 55° C	
accuracy:	0.001 typ.	Storage temp. -55° to 85° C	
"Jog" feature		Humidity: 5 to 95% non-conden	
Allows set-point to	be increased or decreased in		

Specifications

"Profiles" feature

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vacuum ressure filter to

for the d in the off from ltitude, splayed ote.

lves to ented in

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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steps of 1 foot or 0.1 knots simply by using arrow

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keys.

Static Output

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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:	
resolution:	
accuracy:	
Altitude function	

range: resolution: accuracy: 0.1 to 42 inHg 0.001 inHg 0.002 inHg -4000 ft. to 100,000 ft. 1 foot 2 ft. @ 0 ft. 6 ft. @ 35,000 ft.

Climb function

range:	
resolution:	
accuracy:	

0 ft/min to 50,000 ft/min 1 ft/min 1% of rate of climb

12 ft. @ 50.000 ft.

50 ft. @ 80,000 ft.

Pitot Output

Pressure function	
range:	0.1 to 110 inHg
resolution:	0.001 inHg
accuracy:	0.003 inHg
Airspeed function	C
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 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.

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"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° to 50° C
Storage temp.	-25° to 75° C
Humidity:	5 to 95% non-condensing

Specifications subject to change without notice

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Automated Air Data Test Set

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		"Jog" feature	
Pressure function		Allows set-point to	be increased or decreased in
range:	0.1 to 42 inHg	steps of 1 foot or 0.1 l	knots simply by using arrow
resolution:	0.001 inHg	keys.	
accuracy:	0.002 inHg		
Altitude function		"Profiles" feature	
range:	-4000 ft. to 100,000 ft.	A profile of the star	idard set-points of an altimeter
resolution:	1 foot	check or airspeed che	ck can be downloaded from a
accuracy:	2 ft. @ 0 ft.	computer. Such a pro	file allows the user to operate
	6 ft. @ 35,000 ft.	the unit using a single	e key. Up to 20 such profiles
	12 ft. @ 50,000 ft.	can be stored in the u	nit.
	50 ft. @ 80,000 ft.		
Climb function		Vacuum requiremen	ıt
range:	0 ft/min to 50,000 ft/min	Vacuum pump shou	Ild be capable of generating a
resolution:	1 ft/min	vacuum at least 10,00	0 ft. higher than the max.
accuracy:	1% of rate of climb	required altitude.	
Pitot output		Pressure requirement	nt
Pressure function		Dry Air (No Nitrogen) at 35 psig. with a regulator dedicated to this unit.	
range: 0.1 to 110 inHg			
resolution:	0.001 inHg		
accuracy:	0.003 inHg	Power requirement	
Airspeed function	C	90-260 VAC, 48-40	0 Hz., 100 watts
range:	0 to 1100 knots	Interfores	
resolution:	0.1 knots	DS222 and IEEE AS	20
accuracy:	1.5 knots @ 20 knots	Model 6505 Remote Unit optional	
·	0.5 knots @ 50 knots		
	<0.25 knots above 100 knots	Dimensions & weigh	it
	<0.1 knots above 300 knots	6.5" high x 15.5" wide x 17.0 deep / 20 lbs.	
Mach function		19-inch rack-mount	kit optional
range:	0.0 to 5.0 Mach	Environmental spece	Z •
resolution:	0.001 Mach	Operating temp	$\int_{0}^{0} to 50^{\circ}C$
accuracy:	0.001 above 0.2 Mach	Storage temp	-25° to 75° C
EPR function		Humidity	5 to 95% non-condensing
range:	0 to 199	mununy.	5 to 55 % non-condensing
resolution:	0.001	Specifications subject to	change without notice
accuracy:	0.002 typ.	Specifications subject to	1/04



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Pressure / Vacuum System



WODEL 6500-PVS



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

۶	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
- \succ Weight : 15 lbs
- > Dimensions : 18.5" x 12" x 6.1"

Specifications subject to change without notice

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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

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Static Output		"Profiles" feature
Pressure function		A profile of the standard
range:	0.1 to 42 inHg	altimeter check or airspeed check of
resolution:	0.001 inHg	from a computer. Such a profile
accuracy:	0.002 inHg	operate the unit using a single k
Altitude function	C C	profiles can be stored in the unit.
range:	-4000 ft. to 60,000 ft.	is included.
resolution:	1 foot	
accuracy:	2 ft. @ 0 ft.	Pressure & Vacuum system
	6 ft. @ 35,000 ft.	The tester includes separate pr
	12 ft. @ 50,000 ft.	diaphragm pumps for higher reliab
Climb function		system includes a membrane dry
range:	0 ft/min to 25,000 ft/min	provide clean dry air for the entire
resolution:	1 ft/min	Deres da eres id
accuracy:	1% of rate of climb	The Remote unit is the operate
Pitot Output		tester. It is small and light enoug
Pressure function		cockpit. The tester can be turned
range:	0.1 to 60 inHg	the Remote. All valid parameters,
resolution:	0.001 inHg	climb and airspeed, are c
accuracy:	0.003 inHg	simultaneously on a single screen of
Airspeed function		Manual Vent
range:	0 to 650 knots	The tester includes manual r
resolution:	0.1 knots	enable the system (aircraft) to be a
accuracy:	0.5 knots @ 50 knots	the event of loss of power.
	0.25 knots @ 100 knots	1
	0.05 knots @ 650 knots	Power requirement
Mach function		90-260 VAC, 47-440 Hz ; 200
range:	0.0 to 3.0 Mach	Interfaces
resolution:	0.001 Mach	RS232 : IEEE-488 & Encoder
accuracy:	0.001 above 0.2 Mach	,,
·		Dimensions & weights
Differential Output (referenced to Static)		Main unit: 22" x 14" x 9" / 4
(Secondary Static O	utput)	Remote unit: 7" x 8" x 2" / 1
range:	+/- 30.0 inHg	

+/- 30.0 inHg 0.001 inHg 0.002 inHg

"Jog" feature

resolution:

accuracy:

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



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set-points of an can be downloaded allows the user to ey. Up to 20 such PC-based software

essure and vacuum ility. The pressure er, and a filter to system.

or interface for the h to be used in the l On and Off from including altitude, clearly displayed on the Remote.

netering valves to manually vented in

0 W

optional

0 lbs 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

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