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<http://www.avionteq.com/TIC-Test-Instruments-TB-2100-transponder-DME-Mode-S-Test-Set.aspx>

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Ground Support Test Equipment

Condensed catalogue

T A T G R O U P

barfield 
a Sabena technics company

Your success is our concern

1811D Pitot static

- > Ideal for flightline calibration checks and troubleshooting
- > Performs precision Pitot-Static leak tests
- > Two-instrument combination with optional ranges
- > Correction cards for all analog instruments
- > Fully portable and self-contained
(No electric or external pressure sources needed)
- > Lightweight plastic case for portability



1811GA-1811HA Pitot static

- > Compact fiberglass case allows unit to fit in tight quarters
- > Performs on board instrument calibration checks
- > Performs precision Pitot-Static leak tests
- > Three-instrument capability for analog units with optional ranges
- > Correction cards for all analog instruments
- > Operates from 115/230 VAC 50-400 Hz (1811HA)
- > Fully portable, self-contained
(No electric or external pressure sources required)
- > Vacuum & pressure hand pumps installed on both models (1811GA & 1811HA)



DPS350

- > Transducer Technology provides the highest accuracy and best long-term stability available for line maintenance equipment
- > Menu-driven operator interface provides protection of instruments under test with programmable limits on the following parameters:
 - Altitude (feet or meters)
 - Airspeed (knots or km/hr)
 - Rate of Climb (ft/min or m/min)
 - Mach (mach)
- > Leak testing mode displays leak rates in ft/min, knots/min and metric equivalent units
- > Meets .0030 inHg accuracy on static channel





RVSM
Compliant

DPS450

- > Fully automated unit
- > Optional handheld remote control
- > Database capable of saving the limit data of different aircraft and stored in a battery backed memory
- > GO TO GROUND feature automatically and safely depressurizes both systems to ambient pressure
- > Compact and lightweight for quick and easy portability
- > Meets .0030 inHg accuracy on static channel



RVSM
Compliant

DPS500

- > Fully automated unit
- > Handheld remote control
- > Database capable of saving the limit data of up to thirty different aircraft and stored in a battery backed memory
- > GO TO GROUND feature automatically and safely depressurizes both systems to ambient pressure
- > Compatible with any Centronics standard parallel interface printer of 80 or 132-column width
- > PC programmable via RS 232 using optional Test Program Manager (TPM) software kit
- > Available with an IEEE 488 Connector
- > Meets .0030 inHg accuracy on static channel

ADTS 206

- > Three independent pressure control channels for altitude, air speed and angle of attack
- > High accuracy resonant silicon sensors on all channels
- > Internal pressure and vacuum generation, high pump reliability
- > GO TO GROUND feature automatically and safely depressurizes both systems to ambient pressure
- > Manual or stored test sequence operation
- > RS232 port for PC control or test data transfer
- > Limits protection for aircraft instruments
- > Compact and lightweight for quick and easy portability
- > Meets .0030 inHg accuracy on static channel



RVSM
Compliant



T-30D VOR/ILS/MB Ramp Test Set

- > Permits ICAO Annex 10 CAT III ILS ramp check certification
- > Checks VOR, GS, LOC, MB, Flight Director & Autopilot
- > Dual VOR/LOC/GS frequencies
- > Separate and simultaneous MB/ILS
- > Dual extended-range variable ILS
- > Easy one-man operation
- > Fully adjustable functions allowing precise testing and measurements
- > 2-year limited warranty; 5 & 10-year available

T-36C Cat III Nav/Comm Test Set

- > Generates ILS signals to ICAO Annex 10 CAT III precision
- > Checks VOR, GS, LOC, MB, VHF COMM, Flight Director & Autopilot
- > Operates in shop, on ramp and in cockpit
- > Tests antenna-to-antenna or direct connect coax
- > US and European frequencies with 8.33 kHz channels
- > Meets requirements of MIL-PRF-28800F
- > Built-in NICAD battery and charger
- > 2-year limited warranty



TR-220 Multi-Function Test Set

★ ADS-B Compliant

- > ADS-B and TIS Test features
- > Tests transponder (Modes A, C and S)
- > Allows simulation of ATCRBS and Mode S Intruders for TCAS testing
- > Simulates DME distance and velocity
- > Performs transponder tests required by FAR Appendix F Part 43
- > Download test data to PC via an RS-232 interface
- > 2-year limited warranty; 5 & 10-year available



TB-2100 ATC/DME Test Set

★ ADS-B Compliant

- > Two independent, non-coherent RF channels for Mode S testing
- > Tests the latest Mode S Capabilities
 - Automatic Dependent Surveillance Broadcast (ADS-B)
 - Extended Squitter
 - Elementary (ES) and Enhanced Surveillance (EHS)
 - Traffic Information Systems (TIS)
- > Color LCD display features wide viewing angle
- > Touch-sensitive screen allows quick setup of test parameters
- > Easy to navigate menus require minimal training to operate
- > Continuous display of critical measurements including power, pulse parameters, percent reply and frequency
- > 2-year limited warranty

Available for all aircraft and helicopter types

Pre-Test Probes

>> The pre-testers are employed to verify the integrity of the pitot test adapter, hoses and air data test set prior to connection to the aircraft. The probe is inserted into the pitot test adapter while connected to the hose and air data test set. By applying pneumatic pressure, the entire assembly (tester, hoses & adapters) are checked for leakage.



Pitot Test Adapters

>> The pitot test adapter body is of solid uni-body construction. There is no metal to metal contact between pitot tube and test adapters. Seals and spacers inside the adapter body ensure a leak free connection. They are easily exchanged without special tools. Optional high temperature seals and spacers can be installed upon request.

Static Test Adapters

>> Static test adapters provide a connecting seal at the aircraft's static ports. The means of attachment depend on the aircraft type.

Installation and removal of our adapters takes just seconds.

Air Data Accessory Kits

>> Air data accessory kits contain all the required test adapters and hoses to connect the air data test set to the aircraft type for which the kit is designed.

Also included as standard equipment are pre-test adapters, seal kits and lubrication fluid.

Depending on the need, additional equipment such as control consoles and suspension arms are a part of the kit.

RVSM Air data accessory kits are available.



TT1200A Turbine temperature test set

- > Displays the temperature in °F in addition to °C and millivoltage
- > Has a calibrated temperature range of 1372 °C
- > Powered from long lasting C-cell batteries with auto-off feature to conserve batteries
- > True 4-wire resistance measurements
- > Calibration date reminder available from display with user alerts for approaching CAL date
- > Backlit 16-character alphanumeric display with user prompts
- > CE certified
- > Accuracy: Typical measurement error at ambient (25°C) less than $\pm 0.5^{\circ}\text{C}$

Cable Adapter
 P/N 101-00932 and 101-00939
 For GE Engine CF6-80A, A1 and C2

Cable Adapter
 P/N 101-00933
 For GE Engine CF6 and CF6-50



P/N 101-00932-933-939

CT12A Cable tensiometer

The CT12A provides accurate readings in pounds over a wide range of cable sizes from 1/16" to 1/4" (US Std). Operating temperatures range from 14°F (-10°C) to 120°F (50°C).

- > Meets new OEM specifications
- > 10-year useful life span
- > Rechargeable battery
- > 4-character digital display
- > Cable gauge included
- > Rugged ergonomic design
- > No conversion table required
- > 1-year calibration cycle
- > High accuracy
- > Simple 3 button operation
- > Higher tension measurements
- > 25 to 1000 pound range (US Standard)
- > Ambient temperature reading
- > Ten (10) minute automatic shutoff feature
- > Available as single cable fixed riser or multi-cable riser
- > Calibration bar included



TT1000A Turbine temperature test set

- > Automatically compensates for ambient temperature at test lead connection junction point or indicates cold junction temperature
- > Thermocouple and lead resistance measurements to 0.01 ohm and insulation measurements up to two (2) megohms
- > Large, 9mm (0.35") high character, 3 1/2-digit liquid crystal display with pre-programmed legends
- > Range: from 0 to 1000° C certified, -60 to 1160° C extended
- > Measures and displays values of CH/AL thermocouple in terms of degrees Celsius (°C) temperature
- > Simulates CH/AL thermocouple with or without simulated system lead resistance
- > Accuracy: Typical measurement error at ambient (25°C) less than $\pm 1^\circ\text{C}$



P/N 101-00902-908

Cable Adapter
P/N 101-00902
For GE Engine CF6-80A, A1 and C2

Cable Adapter
P/N 101-00908
For GE Engine CF6 and CF6-50

SC063 Sight compass

- > Calibration device for mounted aircraft compass
- > Rugged, durable and lightweight
- > Accurate to within $\pm 1^\circ$
- > Hand-held and portable
- > 5-foot monopod support included
- > Protective carrying case included



2311FA Pressure tester

- > Manufactured with lightweight aluminium-alloy
- > Field tests aircraft fluid pressure systems
- > Provides for both leak and calibration tests
- > Pressure source for pressure transducers, warning switches & direct reading pressure gauges
- > Applicable for shop or line use
- > No electrical or pneumatic source needed
- > Analog and digital gauges available



2471F Megohmmeter

- > Hand-held, portable, rugged, durable and lightweight
- > Panel switch selector for 100, 200 and 500 volt test potentials
- > Push to test probe button activation
- > Simple forward reading scale
- > Absolutely no shock hazards
- > Sensitive operational amplifier
- > Solid-state circuitry





DC400A Fuel quantity test set

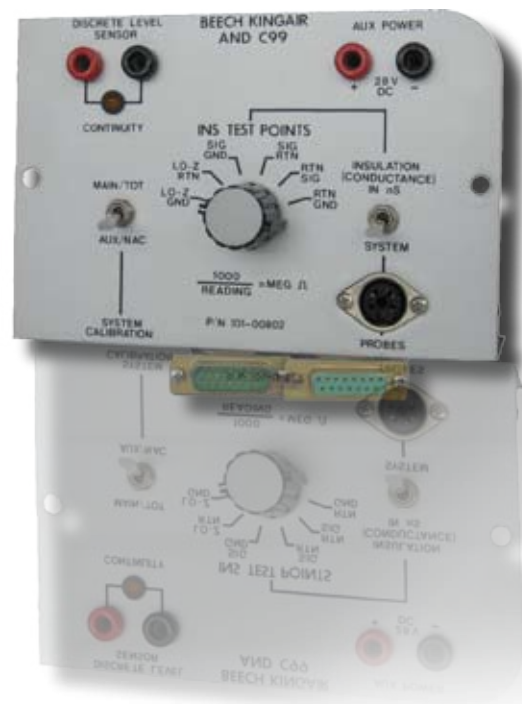
- > Completely self contained DC capacitance fuel quantity test system
- > Capability to bench check aircraft fuel quantity system components
- > Capacitance simulation in the range of 0 to 400 pF with infinite resolution
- > 4 1/2-digit liquid crystal display
- > Digital readout of quantity system output in (volts, lbs., ratio, etc.)
- > Interchangeable aircraft interface modules
- > Powered from common AA batteries
- > Provisions for bench-testing of system components
- > State-of-the-art low battery drain circuitry
- > Maximum ease of operation and maintenance

DC400 adapter modules

The interchangeable adapter modules customize the DC400A to interface directly with specific aircraft without the need for an external cable.

>> Aircraft specific modules include:

BAe Jetstream 32
 BAe Jetstream 41
 Bell Helicopter 214ST
 Bell Helicopter 412SP, 412HP
 Canadair CL600, CL601
 Dehavilland DHC8
 Embraer EMB-120
 Hawker Beechcraft King Air C-99 & 1900
 Hawker Beechcraft 125-800
 Hawker Beechcraft 125-1000
 Piper Meridian
 SAAB SF-340
 Swearingen SJ30-2



DFQ40K Fuel quantity test set

- > Microprocessor based
- > Completely self contained AC capacitance fuel quantity test system
- > Measures capacitance, insulation, DC voltage, resistance and distance to fault
- > Capacitance simulation and indicator testing
- > Custom multi-line backlit graphic display
- > Direct keypad entry of Tank and Comp simulation values
- > Uses all existing fuel quantity cables
- > Uses new generation of Smart Cables to perform Automated Test Routines
- > Calibration date available from display with user alerts to approaching calibration date
- > Numerous user prompts
- > Powered from common C-cell batteries with auto-off feature to conserve energy



AC adapter modules

Contrary to popular belief, there is no “black magic” in troubleshooting and calibrating fuel capacitance systems, but only if you have the right equipment.

>> Aircraft modules available for aircraft using AC fuel systems include:



ATR	Hawker Beechcraft (C-90, A100) Beechjet
Airbus	Hawker-Siddeley
Bell Helicopter	IAI
Boeing	Learjet
Canadair	Lockheed
Casa	McDonnell-Douglas\Boeing
Cessna	Mitsubishi
Dehavilland	Nord
Embraer	Pilatus
Eurocopter/Aerospatiale/MBB	Piper
Fairchild	Rockwell
Falcon Jet	Sikorsky
Fokker	Socata
Gulfstream	Swearingen

Airbus Avionics & Simulation



G5M5M0-113-0000
Smoke Detector Test Set

- > Measurement of voltage delivered by smoke detectors
- > Measure current circulating on the smoke detectors circuits
- > C.C Alarm function
- > On/Off A.L function
- > Test rack function for tool set self-test
- > Select 5mA or 400mA range on milliammeter



G5-5M0-319-0000
Main Landing Gear Wheel
Tachometer Driving Tool

- > Control the rotation direction of the motors
- > Control the speed of the motors
- > Check the RPM of the motors
- > Unit is supplied with 28VDC and protected by a 5A fuse
- > Drive motor support drives landing gear tachometer generators means of drive shafts



28 VDC Power Supply Tool

- > Activate side stick solenoid to enable the adjustment of transducer unit input lever
- > Simulate auto pilot mode to check operation of spring rod in artificial feel unit
- > Models available for A319, A320, A321
- > Models available for A330, A340
- > Models available for A340-500-600

Aeroframe Airpairs

Testers for GTCP85, GTCP331 & GTCP660 series APU's



AT600A (GTCP85 Series)

- > APU & ECU cable interface
- > Panel meter digital readout
- > Monitor aircraft signals
- > Fault simulations
- > Resistance measurements
- > Current measurements
- > GO/NO-GO indications
- > Self-test



AT300A (GTCP331 Series)

- > APU & ECU cable interface
- > Panel meter digital readout
- > Monitor aircraft signals
- > Electrical loading
- > Fault simulations
- > Resistance measurements
- > GO/NO-GO indications
- > Battery noise detection



AT100A (GTCP660 Series)

- > APU cable interface
- > Panel meter digital readout
- > Monitor aircraft signals
- > Fault simulations
- > Resistance measurements
- > Pressure measurements
- > GO/NO-GO indications
- > Self-test

Tired of repairing analog instruments?



Digitize!

Upgrade your older 1811 series pitot-static testers to the Battery operated drop-in replacements for the current analog instruments.

Retrofit Includes: DALT55 (1 ea.), DAS650 (1ea.), rechargeable battery pack (1 ea.) and installation.

Digital retrofit service

- > Transducer technology (No more blown instruments)
- > Virtually immune to overpressure damage
- > One-button leak test feature
- > DAS650 displays Airspeed.
- > Mach displayed when coupled with the DALT55
- > DALT55 displays Altitude and VSI simultaneously
- > 1-year calibration cycle (OEM suggested cycle)
- > Rechargeable battery pack
- > Battery power level displayed on main screen
- > Backlit for nighttime operation
- > No correction cards needed

Why send your equipment to the OEM?

With the OEM you receive additional benefits and extras that other calibration shops are unable to provide such as:

- > Receive OEM designated free mods, including software updates
- > Dedicated repair shop and customer service team
- > Highest level of technical knowledge about the equipment
- > Advanced Cal/Bench Check; Standard System & Component Checks
- > Latest revision verification on users' operation manuals
- > Receive OEM warranty benefits
- > Outdated operation manuals replaced as needed



www.barfieldinc.com



CONTACT US:

4101 NW 29th Street
Miami, FL 33142 USA
www.barfieldinc.com

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