

Product Capabilities



Avionics

Aeroflex's avionics test equipment is used to design, manufacture, test and maintain commercial, private and military airborne electronic systems. With the quality and performance you have come to expect from Aeroflex, our avionics test solutions provide the critical data needed to ensure a safe flying environment. Aeroflex has been the industry leader in avionics testing for more than 30 years and continues to lead with innovative solutions.

IFR 6000 Ramp Test Set



- One main user screen for each test mode
- Detachable antenna
- Large display
- Simple user interface
- Lightweight and compact under 10 lbs.

The IFR 6000 tests transponder modes A/C/S Mode S Level 1-4, FAR Part 43 Appendix F Compliant (Enhanced Surveillance) + Proposed FAR Part 43 Appendix F Extension. It also tests DME TCAS I and II. It features an extremely easy to use interface where every parameter the user commonly needs to view is displayed on one screen. The IFR 6000 is everything you need for comprehensive DME testing supporting all DME channels. Interfaces include RS-232, USB, antenna, RF I/O, interrogation and reply monitor BNC and altitude decoder.

IFR 4000 Nav/Comm Ramp Test Set



- Accurate measurement of VHF/UHF transmitter, frequency, output power, modulation (AM and FM and receiver sensitivity)
- Generation of ARINC 596 selective calling tones
- Guided test capability cuts down total test time

The IFR 4000 navigational communications ramp test set verifies the operation and installation of ILS, VOR and Marker Beacon receivers and VHF AM/FM and UHF AM transceivers. The IFR 4000 with its lightweight size (under 8 lbs.), long run time battery (8 hrs.) and ergonomic design will provide you with the most portable navigational communications ramp test set on the market today.

IFF-45TS Transponder/Interrogator/TACAN Bench Test Set



- AIMS certified (All modes including Mode 5)
- Dual I/O for diversity transponder or sum / difference interrogator testing
- Separate RF I/O for direct connection to equipment under test or connection to antennas for over-the-air testing
- Supports AIMS 04-900 Type B (KIV-77) Mode 4/5 cryptographic equipment
- Upgradeable to support AIMS 97-900 (external: KIT-1C, KIR-1C, KIT-1A, KIR-1A, KIV-6) Mode 4 cryptographic equipment or appliqué AIMS 04-900 Type A (KIV-78).

Aeroflex Avionics Products

Trans, Inter, DME, TACAN and TCAS

- APM-424(V)4 & TS-4530-1/IPM INTER/XPDR Test Set
- IFF-45TS Transponder/Interrogator/TACAN Bench Test Set
- IFR 6000 Ramp Test Set
- IFR 6015 Military Ramp Test Set
- SDX 2000 Transponder/Interrogator/DME Test Set
- ATC-1400A Transponder/DME Bench Test Set
- T-1401 TACAN Accessory Unit
- S-1403DL/MLD Mode S Accessory Unit

- SI-1404 MK12/Mode S IFF Accessory Unit
- IFF-701Ti IFF Transponder/Interrogator Test Set
- RGS 2000 TCAS Reply Generator

Nav/Comm Testers

- IFR 4000 Nav/Comm Ramp Test Set
- Avionics Test Studio Software Defined PXI Instruments
- Avionics Test Bench Configurable PXI Platform
- NAV-2000R Nav/Comm Signal Generator
- NAV-750C/2030 Series Avionics Signal Generator

A passion for performance.

**Interrogator/Transponder Test Set
APM-424(V)4
TS-4530-1/UPM (NSN:6625-01-570-7091)**



- Transponder Test Set Modes 1, 2, 3/A, C, 4, S (including ELS and EHS)
- Interrogator Test Set Modes 1, 2, 3/A, C, 4, S, TCAS, ETCAS
- Mode 5 Upgradable

The AIMS certified APM-424(V)4 Test Set is a performance and capability upgrade to the popular APM-424(V)3 Test Set. It exceeds U.S. Military requirements for safety and environmental testing.

PSD90-1C AC/DC Fuel Capacitance Test Set



- Easy to operate / calibrate
- Closed box calibration using front panel controls - performed annually
- Lightweight / portable
- Re-chargeable battery or externally powered

The PSD90-1C AC/DC Fuel Capacitance Test Set will test any AC or DC capacitive fuel, water, LOX or engine oil or other AC capacitance system. The PSD90-1C has new features that allow the user to better troubleshoot and isolate fuel system problems. Rugged in design, the unit can be used anywhere troubleshooting is required. Capable of being operated with external power, the PSD90-1C is ideal for shop or depot level repair of fuel system components

PSD60-2R Fuel Quantity Test Set



- Measurement of total tank capacitance, individual tank units and compensators
- Simulation of capacitance for indicator calibration
- Simulation of compensator capacitance value for dry calibration

The PSD60-2R is an accurate, highly reliable, portable capacitance test set. Along with an aircraft specific interface, the PSD60-2R will test any AC capacitive fuel, water, LOX, engine oil or other AC capacitance system.

Avionics Test Bench



Avionics Test Bench is a configurable PXI platform for avionics test.

- Utilizes the Aeroflex 3000 Series PXI cards
- Designed for use in product development, prototype, certification, factory test and service
- Software tools provided by Aeroflex Avionics Test Studio
- Avionics signal generation and signal analysis tools in a single chassis

Avionics Test Bench is a comprehensive, configurable test platform for avionics system and component test. The basic unit, ATB-3000, is a powerful bench PXI avionics signal generator, complete with Aeroflex integrated PC controller and touch screen display. Options include RF avionics waveform analyzer and integral spectrum analyzer.

Aeroflex Avionics Products

MLS, Weather Radar and GPS Systems

- MLS-800 Microwave Landing System/Ground Station Simulator
- MLS-801 Microwave Landing System Ramp Test Set
- RD-301A Weather Radar Test Set
- RDX-7708 Weather Radar Test Set
- GPS-101 Satellite Simulator
- GNS-743A GPS/GLONASS Satellite Simulator

Databus Analyzers and Control Display Units

- 429EX ARINC 429 Analyzer
- DT200 ARINC 429 Analyzer
- DT350H Honeywell ASCB Analyzer

- DT400 ARINC 429 Analyzer
- DT400H ARINC 429 Analyzer
- T1200B ARINC 429 Control Display Unit

Fuel Quantity Testers

- PSD30-2AF Universal DC Capacitance Test Set
- PSD60-1AF AC Capacitance Field Calibration Unit
- PSD60-2R Fuel Quantity Test Set
- PSD90-1C AC/DC Capacitance Test Set

ATE Systems

- IRIS 2000 General Purpose ATE System
- IRS 1200 Inertial Reference Unit Test System

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