

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 1, 2026

IFR AEROFLEX

IFR Aeroflex PSD60-2R Fuel Quantity Test Set

IFR Aeroflex Calibration Equipment. Resolution: 0.01 pF (0–199.99 pF), Accuracy: $\pm 0.1\%$ of reading or 0.05 pF, Accuracy: $\pm 2\%$ of reading or 0.1 Ω .



MODEL

**IFR Aeroflex
PSD60-2R**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PSD60-2R

LISTING

<https://aumictechlabs.com/products/psd60-2r/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The IFR Aeroflex PSD60-2R Fuel Quantity Test Set is a portable, battery-powered instrument for testing and calibrating aircraft AC capacitance fuel quantity indication systems. It performs on-aircraft or bench testing with precise measurement and simulation of capacitance values, resistance across eight ranges, and distance-to-fault diagnostics. The unit measures total tank capacitance, individual tank units, and compensators while simulating capacitance for indicator calibration and dry calibration procedures. Technical Specifications Capacitance Measurement Range: 0.00 to 19,999 pF (three ranges); Extended Mode A: 0 to 39.99 KpF Resolution: 0.01 pF (0–199.99 pF); 0.1 pF (200.0–1,999.9 pF); 1 pF (2,000–19,999 pF) Accuracy: $\pm 0.1\%$ of reading or 0.05 pF, whichever is greater, from -25°C to $+55^{\circ}\text{C}$ Resistance Measurement Range: 0.00 Ω to 1,999 M Ω across eight ranges; optional range to 19,999 M Ω Accuracy: $\pm 2\%$ of reading or 0.1 Ω , whichever is greater, from -25°C to $+55^{\circ}\text{C}$ Distance-to-Fault (DTF) Measurement Range: 0.00 to 19,999 pF (1 pF resolution); 20.00 K to 39.99 K pF (10 pF resolution) Accuracy: $\pm 0.1\%$ of reading or 2 pF, whichever is greater Capacitance Simulation Tank Unit Simulator: 10 to 9,990 pF with infinite

resolution Compensator Simulator: 10 to 990 pF with infinite resolution

Key Features

- Measures insulation resistance of tank units and aircraft harness
- Measures coax center conductor to shield for fault isolation
- DTF mode determines wire length or approximate distance to wire breaks
- 18 alkaline C-size non-rechargeable batteries with displayed charge status
- Four dedicated connectors (P1, P3, P4, J5) for tank units, compensators, and indicator circuits

Typical Applications

- Aircraft fuel system capacitance testing and troubleshooting
- Indicator calibration and compensator dry calibration
- Individual tank unit diagnostic measurement
- Harness integrity verification through insulation resistance testing

Compatibility & Integration

Compatible with AD 98-20-40 and AD 99-03-04 compliant aircraft (Mod 6 and above). Dedicated interface cables required for full functionality.

Features & description

From manufacturer datasheet

Features

- Portable high-impact plastic case; battery powered with percent-of-charge display
- Capacitance measurement to 39.99 nF (39.99 KpF) with 0.01 pF resolution on the low range
- Capacitance simulators for tank unit and compensator
- Insulation resistance measurement 10 mOhm to 1999 MOhm (optional to 19999 MOhm)
- Distance-to-Fault (DTF) mode for approximate wire/shield break location
- Compatible with AD 98-20-40 and AD 99-03-04 compliant aircraft (Mod 6 and above)
- Maintenance codes aid troubleshooting
- Large selection of aircraft-specific interface cables (sold separately)

PSD602R Characteristics / Specifications

PARAMETER	VALUE
Model	PSD60-2R
Order / Part References	693; NSN 4920-01-509-8104; also referenced as 01-0597-00
Manufacturer	IFR / Aeroflex / VIAVI Solutions
Instrument Type	AC fuel capacitance / fuel quantity test set Capacitance Measurement
Low	0.00 to 199.99 pF (0.01 pF resolution)
Mid	200.0 to 1999.9 pF (0.1 pF)
High	2000 to 19999 pF (1 pF); 20.00 K to 39.99 KpF (10 pF)
DTF	greater of +/-0.1% of reading or 2 pF Resistance Measurement 10 mOhm to 1999 MOhm in 9 ranges; optional 2000 MOhm to 19999 MOhm
Mode A	greater of +/-0.1% of reading or 0.05 pF, 0 to 39.99 KpF, 0 to 30 degrees phase shift
Mode B	greater of +/-0.1% of reading or 0.05 pF, 0 to 39.99 KpF, 0 to 359 degrees phase shift
Accuracy	greater of 2% of reading or 0.1 ohm (0 to 1999 MOhm); +/-5% in optional range 9 Capacitance Simulators
Tank Unit	10 to 9900 pF, infinite resolution
Compensator	10 to 990 pF, infinite resolution Physical And Power
Weight	12 lb (5.4 kg)
Size	14 inWx 6.5 inHx 10.6 in D (35.6 × 16.5 × 26.9 cm)
Power	27 V, 150 mA maximum
Batteries	18 alkaline C-size, internally mounted, non-rechargeable
Operating Temperature	-25 C to +55 C
Operating Altitude	less than 2000 m
Intrinsic Safety (normal operation)	1 uJ at 0.02 uF Standard Accessories (typical) Ground cable (e.g., 58345 / 55-7002-00); operations manual/CD Aircraft-specific interface cables required and purchased separately Operational Notes Select the correct aircraft interface cable before connecting to the airframe. Observe battery state-of-charge. Perform closed-box calibration

PARAMETER	VALUE
	annually using front-panel procedures. Follow aircraft AD/SB requirements for Mod 6 and later systems.

General Specifications & Supplementary Characteristics

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Operating temperature	25 C to +55 C
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Operating Altitude	less than 2000 m
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Instrument Type	AC fuel capacitance / fuel quantity test set
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Specifications	
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Capacitance Accuracy	
Specifications	
PARAMETER	VALUE
Mode A	greater of +/-0.1% of reading or 0.05 pF, 0 to 39.99 KpF, 0 to 30 degrees phase shift
Mode B	greater of +/-0.1% of reading or 0.05 pF, 0 to 39.99 KpF, 0 to 359 degrees phase shift
DTF	greater of +/-0.1% of reading or 2 pF
Resistance Measurement	
10 mOhm to 1999 MOhm in 9 ranges; optional 2000 MOhm to 19999 MOhm	
Accuracy: greater of 2% of reading or 0.1 ohm (0 to 1999 MOhm); +/-5% in optional range 9	
Capacitance Simulators	
Tank Unit: 10 to 9900 pF, infinite resolution	
Compensator: 10 to 990 pF, infinite resolution	
Physical And Power	
Specifications	

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Standard Accessories (typical)

Ground cable (e.g., 58345 / 55-7002-00); operations manual/CD

Aircraft-specific interface cables required and purchased separately

Operational Notes

Select the correct aircraft interface cable before connecting to the airframe. Observe battery state-of-charge. Perform closed-box calibration annually using front-panel procedures. Follow aircraft AD/SB requirements for Mod 6 and later systems.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.