Avionics

PSD60-1AF

AC Capacitance Fuel Quantity Test Set

Lightweight, easy to operate, portable test set

The PSD60-1AF is designed to calibrate and troubleshoot any AC capacitive fuel, oil or LOX quantity system.

This venerable test set is utilized extensively by rotary and fixed-wing military aircraft operators around the world.

The PSD60-1AF will:
• Measure the capacitance of any AC capacitive fuel, oil or LOX quantity transmitter, or sets of transmitters connected in parallel.
• Simulate either one or two capacitors simultaneously to calibrate any AC capacitive liquid quantity gauging system.
• Measure the insulation resistance in megohms of capacitive liquid quantity transmitters (probes) and/or aircraft wiring.

FEATURES
• Solid-state circuits and LCD backlit display for low power consumption and high reliability
• Battery-powered for complete portability and ease of maintenance
• Lightweight aluminum case has hinged compartment in lid for test lead storage
• Small size permits testing in restricted spaces
• Push-button “extended range” switch permits readings up to 9,999 pf or 10,000 megohms - over-range indication on LCD
• Tested and approved for use in any function with fuel in tanks; battery power eliminates need for voltage (safety) checks

GENERAL SPECIFICATIONS

MEASUREMENT RANGE

.1 to 1,999 pf (or 1 to 19,999 pf in "extended range").
.1 to 19,999 megohms (auto-ranging).

CAPACITANCE SIMULATION RANGE

Tank Unit
15 pf to 8,000 pf
Compensator
15 pf to 1,000 pf

ACCURACY OF MEASUREMENT OR SIMULATION

±.10% of reading or .2 pf to 10,000 pf, whichever is greater, from 0 to +50°C
±.15% of reading or .3 pf to 10,000 pf, whichever is greater, from -25 to +55°C
±10% of reading to 10,000 MΩ in insulation resistance mode, from 0 to +50°C
±15% of reading to 10,000 MΩ in insulation resistance mode, from -20 to +55°C

TEMPERATURE RANGE

Operating
-20°C to +55°C

Non-operating
-51°C to +71°C

For the very latest specifications visit www.aeroflex.com
Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.

**CALIBRATION & WARRANTY**

- Annual calibration
- Two year warranty

**PHYSICAL CHARACTERISTICS**

- **Weight**: 12 lbs (55.44 kg) Nominal
- **Width**: 12” (30.5 cm)
- **Height**: 6.0” (15.2 cm)
- **Depth**: 9.0” (22.9 cm)

**VERSIONS, OPTIONS AND ACCESSORIES**

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<td>699</td>
<td>PSD60-1AF AC Fuel Capacitance Test Set (NSN: 6625-01-297-5305)</td>
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**STANDARD ACCESSORIES**

- 57306 Cable, Hi-Z BNC to two-clip (55-0605-13)
- 57307 Cable, Lo-Z polarized BNC to alligator clip (55-0605-14)
- 57308 Cable, Hi-Z BNC to BNC (55-0605-15)
- 57309 Cable, polarized BNC to standard BNC (55-0605-16)
- 58345 Cable, ground strap (55-7002-00)

**EXTENDED WARRANTY**

- 84388 WPSD/203C Extended standard warranty 36 months with scheduled calibration
- 84389 WPSD/205C Extended standard warranty 60 months with scheduled calibration

Aircraft specific interface cables are required and must be purchased separately. Contact Aeroflex for your application.

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**Aeroflex**

A passion for performance.

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