

Avionics

PSD60-1AF AC Capacitance Fuel Quantity Test Set



AEROFLEX
A passion for performance.

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 10,000 pf in "extended range")
.1 to 10,000 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, whichever is greater, from 0 to +50°C
+.15% of reading or .3 pf whichever is greater, from -25 to +55°C
+10% of reading in insulation resistance mode, from 0 to +50°C
+15% of reading in insulation resistance mode, from -20 to +55°C

TEMPERATURE RANGE

Operating

-20°C to +55°C

Non-operating

-51°C to +71°C

CALIBRATION & WARRANTY

Annual calibration

Two year warranty

For the very latest specifications visit www.aeroflex.com

PHYSICAL CHARACTERISTICS

Weight

12 lbs (5.44 kg)

Width

12" (30.5 cm)

Height

6.5" (16.5 cm)

Depth

9.75" (24.75 cm)

VERSIONS, OPTIONS AND ACCESSORIES

Ordering Numbers	Part Numbers	Versions
PSD60-1AF	01-0605-00	AC Fuel Capacitance Test Set (NSN: 6625-01-297-5305)

STANDARD ACCESSORIES

Cable, Hi-Z BNC to two-clip (55-0605-13)

Cable, Lo-Z polarized BNC to alligator clip (55-0605-14)

Cable, Hi-Z BNC to BNC (55-0605-15)

Cable, polarized BNC to standard BNC (55-0605-16)

Cable, ground strap (55-7002-00)

EXTENDED WARRANTY

WPSD/203C Extended standard warranty 36 months with scheduled calibration

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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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.