

Brochure

VIAVI

PSD60-1AF

AC Capacitance Fuel Quantity 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 perform the following:

- 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 meg-ohms 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 M Ω ; 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

Specifications

Measurement Range

Capacitance	0.1 to 1,999 pf (or 1 to 19,999 pf in "extended range")
Resistance	0.1 to 19,999 M Ω (auto-ranging) Ω

Capacitance Simulation Range

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

Accuracy of Measurement or Simulation

$\pm 0.10\%$ of reading or 0.2 pf to 10,000 pf, whichever is greater, from 0 to +50° C

$\pm 0.15\%$ of reading or 0.3 pf to 10,000 pf, whichever is greater, from -25 to +55° C

$\pm 10\%$ of reading to 10,000 M Ω in insulation resistance mode, from 0 to +50° C

$\pm 15\%$ of reading to 10,000 M Ω in insulation resistance mode, from -20 to +55° C

Temperature Range

Operating	-20° C to +55° C
Storage	-51° C to +71° C

Calibration and Warranty

Annual calibration

Two-year warranty

Physical Characteristics

Weight	12 lbs (5.44 kg)
Width	12.0 in (30.5 cm)
Height	6.0 in (15.2 cm)
Depth	9.0 in (22.9 cm)

Versions, Options, and Accessories

When ordering, please include the order number listed below.

Order Number	Description
699	PSD60-1AF AC Fuel Capacitance Test Set

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

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	36 months with scheduled calibration
84389	60 months with scheduled calibration



Large selection of aircraft fuel interfaces available