

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 $\Omega$ ; 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 $\Omega$ (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

$\pm 0.10\%$  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 $\Omega$  in insulation resistance mode, from 0 to +50° C

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

### Temperature Range

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

### Calibration

Annual calibration

### 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	3 years with scheduled calibration
84389	5 years with scheduled calibration



Large selection of aircraft fuel interfaces available



Contact Us **+1 316 522 4981**  
avcomm.sales@viasolutions.com

To reach the VIAVI office nearest you, visit  
viasolutions.com/contact

© 2022 VIAVI Solutions Inc.  
Product specifications and descriptions in this document are subject to change without notice.  
Patented as described at  
viasolutions.com/patents  
psd60-1af-br-avi-nse-ae  
30187594 902 1222