# **Avionics**

# PSD60-1AFAC 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 simultneously 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

- $\pm .10\%$  of reading or .2 pf to 10,000 pf, whichever is greater, from 0 to  $+50^{\circ}\mathrm{C}$
- $\pm .15\%$  of reading or .3 pf to 10,000 pf, whichever is greater, from -25 to  $+55^{\circ}\mathrm{C}$
- $\pm 10\%$  of reading to 10,000 M $\Omega$  in insulation resistance mode, from 0 to  $\pm 50^{\circ}$  C
- $\pm 15\%$  of reading to 10,000 M $\Omega$  in insulation resistance mode, from -20 to  $+55^{\circ}\mathrm{C}$

#### TEMPERATURE RANGE

#### **Operating**

-20°C to +55°C

# Non-operating

-51 $^{\circ}$ C to +71 $^{\circ}$ C

### **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

**Ordering** 

Numbers Description

699 PSD60-1AF AC Fuel Capacitance Test Set

(NSN: 6625-01-297-5305)

#### STANDARD ACCESSORIES

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57307 Cable, Lo-Z pola (55-0605-14)	rized BNC to alligator clip
57308 Cable, Hi-Z BNC t	to BNC (55-0605-15)
57309 Cable, polarized (55-0605-16)	BNC to standard BNC
58345 Cable, ground strap	p (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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