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 Ω in insulation resistance mode, from 0 to $\pm 50^{\circ}$ C
- $\pm 15\%$ of reading to 10,000 M Ω 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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