

Avionics

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PSD60-1AF AC Capacitance Fuel Quantity Test Set



Lightweight, easy to operate, portable test set

AEROFLEX
A passion for performance.

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 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

±.10% of reading or .2 pf to 10,000 pf, whichever is greater, from 0 to +50°C

±.15% of reading or .3 pf to 10,000 pf, whichever is greater, from -25 to +55°C

±10% of reading to 10,000 MΩ in insulation resistance mode, from 0 to +50°C

±15% of reading to 10,000 MΩ 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

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

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	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.

FINLAND

Tel: [+358] (9) 2709 5541
Fax: [+358] (9) 804 2441

FRANCE

Tel: [+33] 1 60 79 96 00
Fax: [+33] 1 60 77 69 22

GERMANY

Tel: [+49] 8131 2926-0
Fax: [+49] 8131 2926-130

INDIA

Tel: [+91] 80 5115 4501
Fax: [+91] 80 5115 4502

KOREA

Tel: [+82] (2) 3424 2719
Fax: [+82] (2) 3424 8620

SCANDINAVIA

Tel: [+45] 9614 0045
Fax: [+45] 9614 0047

SPAIN

Tel: [+34] (91) 640 11 34
Fax: [+34] (91) 640 06 40

UK Cambridge

Tel: [+44] (0) 1763 262277
Fax: [+44] (0) 1763 285353

UK Stevenage

Tel: [+44] (0) 1438 742200
Fax: [+44] (0) 1438 727601
Freephone: 0800 282388

USA Wichita

Tel: [+1] (316) 522 4981
Fax: [+1] (316) 522 1360
Toll Free: 800 835 2352

USA Kansas City

Tel: [+1] (913) 693 1700
Fax: [+1] (913) 324 3103


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www.aeroflex.com
info-test@eroflex.com



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