

Avionics

PSD30-2AF Universal DC Capacitance Test Set

NSN: 6625-01-416-7180




AEROFLEX
A passion for performance.

The PSD30-2AF is designed to calibrate and troubleshoot any DC capacitive fuel quantity system. The PSD30-2AF will perform the following functions:

- Measure the capacitance or insulation resistance of any DC capacitive fuel quantity system with required aircraft specific interface cable (not included).
- Simulate the capacitance of any DC fuel quantity system to calibrate or troubleshoot the system.
- Measure the DC voltage to the fuel quantity gauge in the range of 0-40 VDC in .01 VDC increments.

FEATURES

- Solid-state circuits and Liquid Crystal Display for low power consumption and high reliability. LCD is backlit for enhanced viewing.
- Tested and approved for use with fuel in tanks.
- Portable, lightweight, sealed, high-impact ABS case reduces weight of tester with batteries installed to less than 12 pounds.
- Small size permits testing in restricted spaces - 10.5"W x 14"L x 6"H. Ideal for Forward Area Deployment.
- Very easy to operate. Choose the FUNCTION desired and read the measured capacitance, insulation or voltage on the display.

- Auto-ranging circuit and 4.5 digit display permit resolution to .01 pF in capacitance functions and .01 meg in insulation (megger) function.
- Digital Multi-meter (DMM) function reads external voltage up to 40 VDC.
- BATTERY CHECK function reads % of usable battery charge remaining.
- Recommended annual calibration interval. Stability of the measuring circuit eliminates need to recalibrate each time unit is used.
- Two year standard warranty.
- CE Marked - 

SPECIFICATIONS

CAPACITANCE SIMULATION AND MEASUREMENT

Ranges

Lo - 0 to 199.99 pF in .01 pF increments

Hi - 200 to 1999.9 pF in .1 pF increments

Accuracy

±.1% of reading or .1 pF, whichever is greater (-20° C to +50° C)

RESISTANCE MEASUREMENT

Range

100 K Ω to 2,000 M Ω

Accuracy

±10% of reading from 0° C to +50° C or

±15% of reading from -20° C to 0° C

DIGITAL VOLTMETER MEASUREMENT

Range

0 to 40 VDC in .01 volt increments

Accuracy

±.5% of full scale (.2 VDC)

POWER REQUIREMENTS

Input

18 C cell batteries

PHYSICAL CHARACTERISTICS

Size

10.5" X 14" X 6.5"

(26.7 cm X 35.6 cm X 16.5 cm)

Weight

12 lbs. (5.4 Kg)

SUPPLEMENTAL INFORMATION

Test Set Certifications

Safety Compliance EN 61010-1

EMC EN 61326

ORDERING INFORMATION

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EXTENDED WARRANTY

WPSD/203C Extended standard warranty 36 months with scheduled calibration

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