

Product Brief

VIAVI

PSD60-2R

Fuel Quantity Test Set

The PSD60-2R is an accurate, highly reliable, portable capacitance test set. Along with an aircraft specific interface, the PSD60-2R will test any AC Capacitive Fuel, Water, LOX, Engine Oil, or other AC capacitive system.

The PSD60-2R performs these functions:

- Measurement of total tank capacitance, individual tank units and compensators
- Simulation of capacitance for indicator calibration
- Simulation of compensator capacitance value for dry calibration
- Measurement of the insulation resistance of tank units and aircraft harness
- Measurement of coax center conductor to shield for fault isolation
- Display of capacitance resolution to 0.00 pF for accurate individual tank unit testing (in 199.99 pF range)



A fuel tester that makes a powerful difference in line and hangar maintenance

Features

- Compatible with AD 98-20-40 & AD 99-03-04 compliant aircraft (Mod 6 and above)
- Modular design for high reliability and low maintenance
- Closed box calibration using front panel controls – performed annually
- Battery powered with percent of charge displayed
- Maintenance codes displayed to aid in troubleshooting
- Distance-to-Fault (DTF) Mode determines the “length” of the wire or the approximate distance to a break in the wire or shield
- Large selection of aircraft specific interface cables available



Large selection of aircraft fuel interfaces available

Specifications

Measurement Range

Capacitance		
Low	0.00 to 199.99 pF	(0.01 pF res.)
Mid	200.0 - 1999.9 pF	(0.1 pF res.)
High	2,000 - 19,999 pF	(1 pF res.)
	20.00 K - 39.99 K pF	(10 pF res.)
DTF	0.00 to 19,999 pF	(1 pF res.)
	20.00 K - 39.99 K pF	(10 pF res.)

Resistance

10 m Ω to 1,999 M Ω in 9 ranges. Optional range:
2,000 M Ω to 19,999 M Ω

Measurement Accuracy

AC Capacitance	
Mode A	Greater of ± 0.1 % of reading or 0.05 pF from 0-39.99 K pF at 0 to 30 degrees phase shift
Mode B	Greater of ± 0.1 % of reading or 0.05 pF from 0-39.99 K pF at 0 to 359 degrees phase shift
DTF	Greater of ± 0.1 % of reading or 2 pF.

Resistance

Greater of 2% of reading or 0.1 ohm greater, from 0.00 Ω to 1,999 M Ω

$\pm 5\%$ in optional range 9 (2,000 M Ω to 19,999 M Ω)

Capacitance Simulator Range

Tank Unit	10-9,900 pF infinite resolution
Compensator	10-990 pF with infinite resolution

Physical Characteristics

Weight	12 lbs (5.4 kg)
Width	14 in (35.6 cm)
Height	6.5 in (16.5 cm)
Depth	10.6 in (26.9 cm)
Power	27 V, 150 mA maximum
Batteries	18 Alkaline C size non-rechargeable internally mounted

Environmental

Operating Temperature	-25°C to +55°C (-13°F to +131°F)
Operating Altitude	< 2,000 m

Versions, Options, and Accessories

When ordering, please include the order number listed below.

Order Number	Versions
693	PSD60-2R Test Set

Aircraft specific interface cables are required and must be purchased separately. Contact VIAVI Solutions for your application.

Standard Accessories

58345	Cable GND Fuel Quantity (55-7002-00)
75322	Operations Manual (CD)

Extended Warranty

84388	36 months with scheduled calibration
84389	60 months with scheduled calibration