Product Brief

VIAVI PSD90–1C AC/DC Fuel Capacitance Test Set

An easy to operate test set that provides multiple functions for calibration and troubleshooting.

The PSD90-1C Universal AC/DC Capacitance Test Set will test any AC or DC capacitive fuel, water, LOX/engine oil, or other AC capacitance system. The test set includes features that allow the user to better troubleshoot and isolate fuel system problems. Rugged in design, the unit can be used anywhere troubleshooting is required. Capable of being operated with external power, the PSD90-1C is ideal for shop or Depot Level repair of fuel system components.



Key Features

• Closed box calibration using front panel controls – performed annually

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VIAVI Solutions

- Lightweight/portable
- Rechargeable battery or externally powered
- Percent of battery capacity displayed
- Self-test on power-up
- Measures DC voltage
- Manual or auto ranging
- 2 and 3 wire megger

Advanced Features

- Manual Megger/DC Cap Ranging Mode. Allows user to manually select range to speed up troubleshooting and assist in finding intermittent faults
- Low Voltage/Low Current Mode. To assist user in isolating intermittent connections that other test sets may mask (fritting)
- REV DC (DC+) Mode. Measures capacitance from the DC+ side of the tank unit for testing and troubleshooting DC+ circuits
- Distance-to-Fault (DTF) Mode. Measures capacitance between the center conductor and shield of any coaxial or shielded wire, thereby determining the "length" of the wire or the approximate distance to a break in the wire or shield



Specifications

Capacitance Measurem	ent			
Range	0.000 pF to 39.99 KpF	0.000 pF to 39.99 KpF		
Accuracy	Greater of ±0.1% of read	Greater of ±0.1% of reading or 0.05 pf		
Range	Measurement Range	Resolutio	on	
Extra Low*	0.000 pF - 19.999 pF	0.001 pF		
Low	0.00 pF - 199.99 pF	0.01 pF		
Medium	200.0 pF - 1,999.9 pF	0.1 pF		
High	2,000 pF - 19,999 pF	1 pFz	1 pFz	
Extended	20.00 KpF - 39.99 KpF	10 pF		
Capacitance Simulation	I			
Accuracy	Greater of ±0.3% of read	Greater of ±0.3% of reading or 0.3 pF from 300 Hz to 9,600 Hz		
Mode	Simulation Range			
TU	0 pF - 11,990 pF	0 pF - 11,990 pF		
COMP	0 pF - 1,190 pF	0 pF - 1,190 pF		
AUX	10 pF - 11,990 pF	10 pF - 11,990 pF		
Resistance Measureme	nt			
Accuracy	Greater of $\pm 2\%$ of reading or 0.1 Ω			
	High Extended and Mhos ±20%			
Range	Resistance Range		Resolution	
Low Voltage*	0.000 Ω - 19.999 Ω		0.001 Ω	
Low Ohm	0.00 Ω - 199.99 Ω		0.01 Ω	
Medium Ohm	200.0 Ω - 1,999.9 Ω		0.1 Ω	
High Ohm	2.000 KΩ - 19.999 KΩ		1Ω	
Extended Ohm	20.00 KΩ - 199.99 KΩ		10 Ω	
Low Mohm	200.0 KΩ - 1,999.9 KΩ		100 Ω	
Medium Mohm	2.000 MΩ - 19.999 MΩ		1 ΚΩ	
High Mohm	20.00 MΩ - 199.99 MΩ		10 ΚΩ	
Extended Mohm	200.0 MΩ - 1,999.9 MΩ		100 ΚΩ	
High Ext. Mohm	2,000 MΩ - 19,990 MΩ		10 MΩ	
Mhos*	0.0000 nS - 1.9999 nS		.0001 nS	
DC Voltage Measureme	ent			
Range	±50 VDC	±50 VDC		
Accuracy	Greater of ±1% of readir	Greater of ±1% of reading or 0.02 VDC		
Resolution	0.01 VDC	0.01 VDC		
DTF (Distance-To-Fault) Measurement			
Range	0 pF - 39.99 KpF			
Accuracy	Greater of ±0.2% of reading or 1 pF			
Range	Measurement Range		Resolution	
Low	0 pF - 19,999 pF		1 pF	
High	20.00 KpF - 39.99 KpF		10 pF	

* Manual Mode Only

Specifications continued

Temperature				
Operating	-40° to +55°C			
Storage	-51° to +71°C			
Altitude				
Operating	15,000 ft (4600 m)			
Operating	maximum			
Power Requirements				
loout	100 - 230 VAC @			
Input	45 - 440 Hz			
Battery, NSN: 6140-01-213-0199	1 Rechargeable 12			
Dattery, 11511. 0140-01-215-0199	VDC Sealed Lead Acid			
Operation	12 hours continuous			
	at 25°C			
Charge Time	8 hours max			
Physical Characteristics				
	10.6" x 14" x 6.5"			
Size	(26.9 cm x 35.6 cm			
	x 16.5 cm)			
Weight	13 lbs (5.9 Kg)			

Test Set Compliance

- Compliant with Boeing Spec 10–61959 Rev H
- MIL-STD-810 Method 511.4 certified
- Traceable to NIST



Large selection of aircraft specific interface cables available

Versions, Options and Accessories

Order Number	Description	
877*	PSD90-1C/60-110 AC/DC Capacitance Test Set (110 V)	
0	NSN: 4920-01-510-5628	
	Designed for F-16 fleet	
	PSD90-1C/61-110 AC/DC Capacitance Test Set (110 V)	
878*	NSN: 4920-01-528-2230	
	Designed for universal non-F-16 fleet	
Aircraft specific interface cables are required and must be purchased separately. Contact VIAVI for your application.		

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Standard Accessories			
57934	CBL PSD90-1C charger 110 V		
57939	CBL PSD90-1C charger 230 V		
75538	Operations Manual PSD90-1C		
38647	Connector BNCF Rev. Polarity		
38648	Connector BNCM Rev. Polarity		
57929	Ground cable		
57947	Interface 472844 F-16 Simulator (standard with order number 877 only)		
Optional Accessories			
952	Precision Transfer Standard PTS-1		
853	NSN: 6625-01-497-5942		
Extended Warranty			
84388	36 months with scheduled calibration		
84389	60 months with scheduled calibration		

* This product is subject to the Export Administration ("EAR") (15 CFR 730-774) and may not be exported, re-exported or otherwise transferred to a foreign person, or outside the United States without authorization from the U.S. Department of Commerce.



Официальный представитель в России

