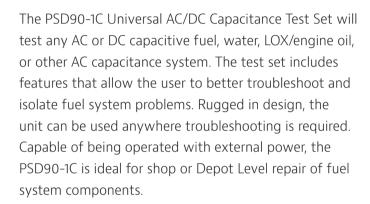
Brochure

# VIAVI PSD90-1C

# AC/DC Fuel Capacitance Test Set

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







#### **Key Features**

- Closed box calibration using front panel controls – performed annually
- 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 reac	Greater of ±0.1% of reading or 0.05 pf		
Range	Measurement Range	Resolution	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		
Extended	20.00 KpF - 39.99 KpF			
Capacitance Simulation		'		
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			
AUX	10 pF - 11,990 pF			
Resistance Measureme	nt			
Accuracy		Greater of $\pm 2\%$ of reading or 0.1 $\Omega$ High Extended and Mhos $\pm 20\%$		
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	1	01 Ω	
High Ohm	2.000 ΚΩ - 19.999 ΚΩ		1Ω	
Extended Ohm	20.00 ΚΩ - 199.99 ΚΩ		10 Ω	
Low Mohm	200.0 ΚΩ - 1,999.9 ΚΩ		100 Ω	
Medium Mohm	2.000 MΩ - 19.999 MΩ		1 ΚΩ	
High Mohm	20.00 ΜΩ - 199.99 ΜΩ		10 ΚΩ	
Extended Mohm	200.0 ΜΩ - 1,999.9 ΜΩ		100 ΚΩ	
High Ext. Mohm	2,000 ΜΩ - 19,990 ΜΩ		10 ΜΩ	
Mhos*	0.0000 nS - 1.9999 nS		.0001 nS	
DC Voltage Measureme	nt	<u> </u>		
Range	±50 VDC	±50 VDC		
Accuracy	Greater of ±1% of readir	Greater of ±1% of reading or 0.02 VDC		
Resolution	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	
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<sup>\*</sup> Manual Mode Only

# **Specifications continued**

Temperature			
Operating	-40° to +55°C		
Storage	-51° to +71°C		
Altitude			
Operating	15,000 ft (4600 m) maximum		
Power Requirements			
Input	100 - 230 VAC @		
Input	45 - 440 Hz		
Battery, NSN: 6140-01-213-0199	1 Rechargeable 12		
	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 AC/DC Capacitance Test Set		
<i></i>	NSN: 4920-01-510-5628		
	Designed for F-16 fleet		
	PSD90-1C/61 AC/DC Capacitance Test Set		
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.			
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			
853	Precision Transfer Standard PTS-1		
833	NSN: 6625-01-497-5942		
Extended Warranty			
84388	36 months with scheduled calibration		
84389	60 months with scheduled calibration		

<sup>\*</sup> 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.



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