

PSD90-3

Letter of Equivalency

Please be advised of the end of manufacture for the fuel quantity test sets listed below. This letter also serves as a letter of equivalency for the PSD90-3 as the replacement for each of these test sets.

Equivalency Statement

The new PSD90-3 Fuel Quantity Test Set is equivalent to VIAVI's current legacy fuel quantity test sets shown below in capabilities and technical specifications for aircraft testing and troubleshooting. Where the legacy test sets are currently used for testing, the PSD90-3 can be used as a direct replacement.

Reference the [PSD90-3 product brochure](#) for additional information.







PSD90-3 NSN: 4920-01-731-0900







PSD90-3AC NSN: TBD

PSD90-3DC NSN: TBD

PSD90-3-F16 NSN: TBD



VIAVI Fuel Quantity Test Set Comparison	     					
	PSD90-3 (Replaces All Test Sets)	PSD30-2AF (Discontinued)	PSD60-2R (Discontinued)	PSD60-1AF (Discontinued)	PSD90-1C (Discontinued)	PSD90-1M (Discontinued)
AC Cap Measurement / Simulation	■		■	■	■	■
DC Cap Measurement / Simulation	■	■			■	■
OEM DC Cap Measurement / Simulation	■	■				
Reverse DC (DC+) Measurement	■				■	
Resistance Measurement (Megger)	■	■	■	■	■	■
2 and 3-Wire Megger	■		■		■	■
Distance to Fault (DTF)	■		■		■	
Voltage Measurement (DC)	■	■	■	■	■	■
Low Voltage / Low Current Measurement	■				■	
Contaminated Fuel Probe - Detection	■		1			
Contaminated Fuel Probe - Auto Detection	■					
Contaminated Fuel Probe - % Error Displayed	■					

	 PSD90-3 (Replaces All Test Sets)	 PSD30-2AF (Discontinued)	 PSD60-2R (Discontinued)	 PSD60-1AF (Discontinued)	 PSD90-1C (Discontinued)	 PSD90-1M (Discontinued)
VIAVI Fuel Quantity Test Set Comparison						
Compatible with AD 98-20-40 and AD 99-03-04 compliant aircraft ¹	2		3			
Self-test on Power-up	■				■	
Rechargeable Battery	■				■	■
Externally Powered	■				■	■
Closed Box Calibration	■		■		■	■
CE Compliant	■		■			
MIL-PRF-28800 Class II Environmental Test	■			■	■	■
MIL-STD-810F Explosive Atmosphere Test	■	■	■	■	■	■
MIL-STD-461G Above Deck Use	4					■
Boeing 10-61959 Safety Spec Test	■		■	■	■	■

1 The PSD60-2R has the ability to detect contaminated fuel probes






2 Applicable to 737/747 Classics. PSD90-3 is capable but not implemented

3 The PSD60-2R has capability to test with TSD/TSU's installed on B737/747 classic aircraft

4 The PSD90-3 has the capability to meet above deck requirements

Note: End of Service is estimated in the year 2030 for discontinued products.

PSD90-3 Equivalent Model Chart

VIAVI Legacy Fuel Quantity Test Sets			Commercial		Military		PSD90-3
Test Set	Model	NSN	AC	DC	AC	DC	Equivalent Model
	PSD60-2R (Part 693 - Discontinued)	4920-01-509-8104	■				PSD90-3 (22160648) NSN: 4920-01-731-0900 or PSD90-3AC (22160649)
	PSD60-1AF (Part 699 - Discontinued)	6625-01-297-5305			■		PSD90-3 (22160648) NSN: 4920-01-731-0900 or PSD90-3AC (22160649)
	PSD90-1C/60 (Part 877 - Discontinued)	4920-01-510-5628			■	■	PSD90-3-F16 replaces PSD90-1C/60 (877) and PSD90-1M (01-1000-16)
	PSD90-1C/61 (Part 878 - Discontinued)	4920-01-528-2230	■	■	■	■	PSD90-3 (22160648) NSN: 4920-01-731-0900 replaces PSD90-1C/61 (878) and PSD90-1M (01-1000-00)
	PSD30-2AF (Part 787 - Discontinued)	6625-01-416-7180		■		■	PSD90-3 (22160648) NSN: 4920-01-731-0900 or PSD90-3DC (22165792) Note: Requires 22165793 interface adapter for fielded PSD30-2AF aircraft cables, or the interface adapter defined in the operations manual.
	PSD90-1M (Part 787 - Discontinued)	4920-01-471-6373			■	■	PSD90-3 (22160648) NSN: 4920-01-731-0900

Interconnectivity

The PSD90-3 is fully compatible with fielded cables currently used on the above test sets. The fielded interface cables currently used with the PSD30-2AF do require an optional adapter purchased separately, as indicated above, or as shown in the operations manual.

Total Fleet Support

The PSD90-3 (22160648) tests both AC and DC capacitive systems. If you have a mixed fleet, using the PSD90-3 will save you cost by having only one asset to manage, calibrate, and ship. AC and DC capability are both controlled via a software option and can be installed at an authorized service facility if required at a later date. Please refer to the [PSD90-3 product brochure](#) for PSD90-3 configurations and ordering information.

Approvals

The PSD90-3 has been approved for use on Boeing commercial aircraft.



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