

VIAVI Solutions

VIAVI PSD90-3

AC/DC Fuel Quantity Test Set

Capacitance Measurement Modes		
AC		
DC		
OEM DC		
Capacitance Measurement		
Range	0.000pF – 39999 pF	
Accuracy	Greater of ±0.1% of	
	reading or ±0.05 pF	
Range (pF)	Resolution (pF)	
0.000 – 39.999 (Manual Range only)	0.001	
0.00 - 399.99	0.01	
400.0 - 3999.9	0.1	
4000 – 3999939999	1	
(AC and DC only)	1	
Capacitance Simulation		
	Greater of ±0.1% of	
Accuracy	reading or ±0.05 pF	
	From 300 Hz to 10,000 Hz	
Simulation Range (pF)	Resolution (pF)	
TU		
0.00 - 399.99	0.01	
400.0 – 3999.9 AC or DC	0.1	
400.0 – 1999.9 OEM DC	0.1	
4000 – 14500	1	
COMP		
0.00 - 399.99	0.01	
400.0 - 1250.0	0.1	
AUX		
0.00 - 399.99	0.01	
400.0 – 3999.9 AC or DC	0.1	
400.0 – 1999.9 OEM DC	0.1	
4000 – 14500	1	

Resistance Measurement		
Accuracy	Greater of ± 2% of	
	reading or 0.05 Ω	
	±5% of reading in manual	
	ranges and Extended	
	Meg range	
Measurement Range (Ω)	Resolution (Ω)	
0.000 - 39.999	0.001	
(AC and DC only)	0.001	
0.000 - 399.99	0.01	
400.0 - 3999.9	0.1	
4.000 K – 39.999 K	0.001 K	
40.00 K – 399.99 K	0.01 K	
400.0 K – 3999.9 K	0.1 K	
4.000 M – 39.999 M	0.001 M	
40.00 M – 399.99 M	0.01 M	
400.0 M – 3999.9 M	0.1 M	
4000 M – 19999 M	1 M	
0.0000 nS - 3.9999 nS	0.0001 nS	
(Manual Range only)		
DTF (Distance to Fault) Measurement		
Range	0 pF – 39999 pF	
Accuracy	±0.1% of reading ±1 pF	
Resolution	1 pF – I range	
Voltage Measurement		
Range	-33.999 V - +33.999 VDC	
Accuracy	Greater of ±0.2% of	
	reading or ±2 mV	
Resolution	0.001 V – I range	
Impedance	1.0 ΜΩ	

Environmental		
Operating temperature	-40°C to +55°C	
Storage temperature	-51°C to +71°C	
Power Requirements		
Battery	1 Rechargeable 12 V Lead Acid Gel Cell	
Operation	12 hours minimum from -10°C to +50°C (Lower operation time beyond these temperatures)	
Charge Time	8 hours max from fully discharged battery	
Charge Input	100 – 240 VAC from 45 – 60 Hz 100 – 130 VAC from 380 – 440 Hz	
Charge Temp	-20°C to +50°C (Charger will operate unit beyond these temperatures but will not charge battery)	
Physical Characteristics		
Height	10.6" (26.9 cm)	
Width	14" (35.6 cm)	

Auto and manual ranging	MIL-PRF-28800F, Class 2	
Vibration Limits	MIL-PRF-28800F, Class 2	
Temp, operating	MIL-PRF-28800F, Class 2	
Temp, not operating	MIL-PRF-28800F, Class 2	
Transit-Drop	MIL-PRF-28800F, Class 2	
Safety Compliance	UL-61010B-1, EN-61010-1, CSA 22.2 No 61010-111	
EMC	EN-61326	
Features		
True closed-box calibration		
Auto and manual ranging		
Fully remote controllable via RS-232		
Backlit display		
CE certified		
Meets safety requirements of Boeing 10-61959 specification		
Self-Test on Power up		
DTF function displayed in capacitance		





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