

Electrical Calibration Workload Matrix

FLUKE®

Calibration

Workload	Fluke Calibrators												Notes & Comments
	Multi-Product Calibrators				Multifunction Calibrators		Oscilloscope Calibrators		Electrical Tester Calibrator	Power Standards		Temperature/Pressure Calibrator	
	5080A	9100	5500A	5522A	5700A	5720A	5820A	9500B	5320A	6100B	6105A	525B	
Analog/Panel meters													
High burden meters													
Low burden meters									V dc & V ac			V dc, I dc & R	
DMMs													
Basic DCV Accuracy	100 ppm	60 ppm	50 ppm	11 ppm	6.4 ppm	3.25 ppm	n/a	n/a	0.10 %	112 ppm	42 ppm	40 ppm	
3.5 digits (typ. ± 0.3 % dc V)									V dc & V ac			V dc, I dc & R	
4.5 digits (typ. ± 0.025 % dc V)													
5.5 digits (typ. ± 0.015 % dc V)													
6.5 digits (typ. ± 0.0024 % dc V)													
7.5 digits (typ. ± 12 ppm dc V)													
8.5 digits (typ. ± 3.9 ppm dc V)													Application Note for Special Metrology
Temperature/Pressure													
RTD Simulate													
RTD Measure													
Thermocouple Simulate													
Thermocouple Measure													
Pressure Modules				opt								opt	
Oscilloscopes													
	1 channel				1-5 channels								
200 MHz to 600 MHz	200 MHz opt	250 MHz or 600 MHz opt	300 MHz or 600 MHz opt	600 MHz opt					600 MHz	600 MHz			
1.1 GHz				opt					opt	opt			
2.1 GHz									opt	opt			
3.2 GHz										opt			
6 GHz										opt			
25 ps fast edge										opt			For scopes to 14 GHz
Safety testers													
Hipot													
Megohm meters	opt	opt											
Installation													
PATs													
Continuity	opt	opt											
Loop impedance													
Leakage current													
Ground bond													
RCD/GFCI													
Medical safety													
Power/Energy													
Wattmeters		opt											
Harmonic analyzers		opt											
Flicker meters				PQ opt									
Phase angle meters				PQ opt									
Power analyzers				PQ opt									
Power recorders		opt											
Secondary Energy Standards													
Watt-hour/Energy meters													
Other													
Clamp Meters													Could require optional SOT Coils
LCR Meters		RC only	RC only	RC only									
Process Calibrators													
Data Acquisition													
Non Sine waveforms													Example: square, triangle, truncated sine, etc.
RF Millivolt Meters					opt	opt							Sinewave up to 30 MHz
# of calibrator functions	8	11	11	11	5	5	11+	11+	9	8	8	9	