

Instrument Accuracy Test

SPECIFICATION: $\pm 1\%$ of full scale on all ranges.

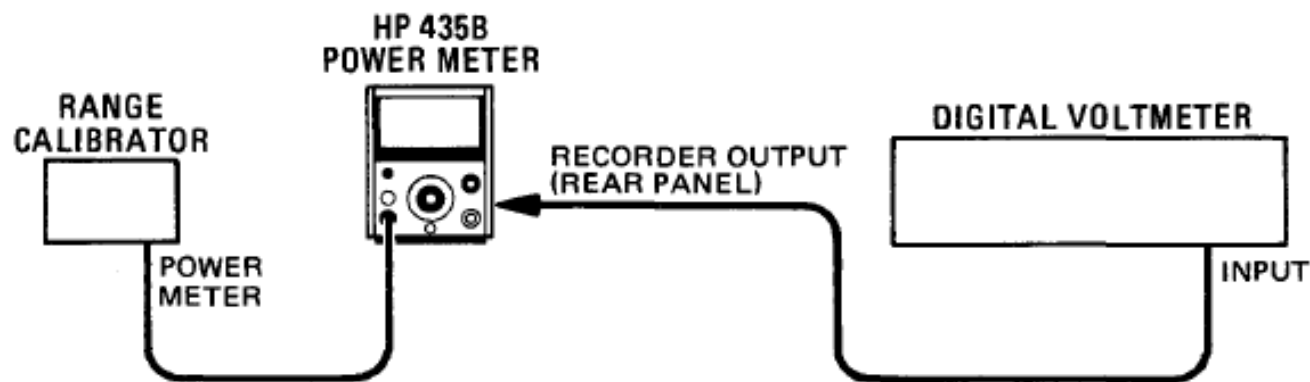


Figure 4-3. Instrumentation Accuracy Test Setup with Calibrator

Results

Range Switch Position	Results			Range Switch Position	Results		
	Min	Actual	Max		Min	Actual	Max
Fully CCW	975 mVdc	982.9 mVdc	1.025 Vdc	5 Steps CW	0.998 Vdc	1 Vdc	1.002 Vdc
1 Step CW	978 mVdc	0.9933 Vdc	1.022 Vdc	6 Steps CW	990 mVdc	0.9989 Vdc	1.01 Vdc
2 Steps CW	981 mVdc	0.9986 Vdc	1.019 Vdc	7 Steps CW	990 mVdc	1 Vdc	1.01 Vdc
3 Steps CW	984 mVdc	0.9998 Vdc	1.016 Vdc	8 Steps CW	990 mVdc	0.9995 Vdc	1.015 Vdc
4 Steps CW	987 mVdc	0.9973 Vdc	1.013 Vdc	Fully CW	990 mVdc	1.003 Vdc	1.015 Vdc

Detailed Position Results

Fully CCW - Min: 973.1 mVdc, Max: 990.8 mVdc, Average: 982.9 mVdc, StdDev: 3.605 mVdc
1 Step CW - Min: 911.5 mVdc, Max: 0.9991 Vdc, Average: 0.9933 Vdc, StdDev: 9.885 mVdc
2 Steps CW - Min: 992.3 mVdc, Max: 1.001 Vdc, Average: 0.9986 Vdc, StdDev: 0.9989 mVdc
3 Steps CW - Min: 0.9988 Vdc, Max: 1.001 Vdc, Average: 0.9998 Vdc, StdDev: 376.9 μ Vdc
4 Steps CW - Min: 918.5 mVdc, Max: 1 Vdc, Average: 0.9973 Vdc, StdDev: 11.12 mVdc
5 Steps CW - Min: 1 Vdc, Max: 1 Vdc, Average: 1 Vdc, StdDev: 51.25 μ Vdc
6 Steps CW - Min: 0.9987 Vdc, Max: 0.9989 Vdc, Average: 0.9989 Vdc, StdDev: 27.35 μ Vdc
7 Steps CW - Min: 1 Vdc, Max: 1 Vdc, Average: 1 Vdc, StdDev: 75.31 μ Vdc
8 Steps CW - Min: 0.9993 Vdc, Max: 0.9996 Vdc, Average: 0.9995 Vdc, StdDev: 36.41 μ Vdc
Fully CW - Min: 1.002 Vdc, Max: 1.003 Vdc, Average: 1.003 Vdc, StdDev: 17.4 μ Vdc