

Report of Calibration  
PSC 2CH-HSS-AR-QD-QF\_S/N 0008  
2025-09-22 16:54:02

Calibration Current standard: BNL PSC ATE S/N 001  
Calibration Volt standard: HP 3458A-002 S/N 2823A 23647  
Calibration Resistance standard: Fluke 742A-1 S/N 1063008  
End Header

lab{1}Chan1  
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999802	1.005424	-1.024627	-1.024801	0.998694	0.011593
-50.001914	50.004349	-49.631161	-49.647694	50.056957	0.073885

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.005687	-0.032896	-0.032736	0.000000
Initial measured gains:	0.999935	0.991927	0.992261	1.001211
Gain corrections:	0.999935	1.008138	1.007799	1.000000

Writing gain and offset corrections for dacSP, dcct1, and dcct2 to PSC

Measuring DAC readback gain and offset

DAC SP	DAC RB
1.000000	0.998806
50.000000	50.054958

Measured offset: -0.002340  
Measured gain: 1.001146  
Gain correction: 0.998855

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999624	0.999729	-0.999757	-0.999774	1.000207	0.016602
-50.001746	50.001248	-50.001133	-50.001186	50.002022	0.078077

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000116	-0.000148	-0.000164	0.000472
Final measured gains:	0.999988	0.999985	0.999986	1.000006

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000150	-0.000170	-0.000121	0.000618
Final measured offsets stdev:	0.000162	0.000045	0.000058	0.000108
Final measured gains mean:	0.999985	0.999984	0.999986	0.999995
Final measured gains stdev:	0.000005	0.000003	0.000003	0.000008

Saving channel 1 calibration constants to qspi

lab{1}Chan2  
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999426	1.001846	-1.059492	-1.058807	0.997131	0.001997
-100.003612	100.089877	-99.356750	-99.299850	100.213127	0.065172

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.001573	-0.067203	-0.067085	0.000000
Initial measured gains:	1.000847	0.992860	0.992292	1.001291
Gain corrections:	1.000847	1.007192	1.007768	1.000000

Writing gain and offset corrections for dacSP, dcct1, and dcct2 to PSC

Measuring DAC readback gain and offset

DAC SP	DAC RB
1.000000	0.997557
100.000000	100.209953

Measured offset: -0.004588  
Measured gain: 1.002145  
Gain correction: 0.997859

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999306	0.999497	-0.999548	-0.999595	1.000420	0.005016
-100.003674	100.003138	-100.002167	-100.002525	100.002647	0.091143

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000198	-0.000260	-0.000304	0.000937
Final measured gains:	0.999993	0.999982	0.999985	0.999986

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000105	-0.000245	-0.000375	0.001397
Final measured offsets stdev:	0.000343	0.000230	0.000128	0.000452
Final measured gains mean:	0.999988	0.999981	0.999984	1.000000
Final measured gains stdev:	0.000007	0.000006	0.000004	0.000009

Saving channel 2 calibration constants to qspi

Test data reviewed by



Date 9/26/25