

Report of Calibration  
PSC 2CH-HSS-AR-QD-QF\_S/N 0005  
2025-12-17 19:05:38

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{5}Chan1  
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000541	0.997734	-1.021980	-1.023405	0.998562	0.028484
-50.008434	50.010277	-49.665474	-49.640568	50.082146	0.050586

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.002902	-0.028879	-0.030841	0.000000
Initial measured gains:	1.000095	0.992564	0.992027	1.001449
Gain corrections:	1.000095	1.007491	1.008037	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	0.998268
50.000000	50.073708

Measured offset: -0.003272  
Measured gain: 1.001540  
Gain correction: 0.998463

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000545	1.000375	-1.000775	-1.000714	1.000268	0.013298
-50.008609	50.008463	-50.008400	-50.008427	50.007748	0.065505

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000170	-0.000239	-0.000177	-0.000095
Final measured gains:	1.000000	0.999991	0.999993	0.999988

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000157	-0.000096	-0.000079	0.000060
Final measured offsets stdev:	0.000116	0.000100	0.000076	0.000175
Final measured gains mean:	1.000000	0.999994	0.999994	0.999989
Final measured gains stdev:	0.000019	0.000011	0.000010	0.000009

Saving channel 1 calibration constants to qspi

Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000136	1.000922	-1.052240	-1.064911	0.996501	0.018853
-100.015900	100.023644	-99.329269	-99.262253	100.181931	0.137896

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.000715	-0.059565	-0.073041	0.000000
Initial measured gains:	1.000070	0.992539	0.991734	1.001643
Gain corrections:	1.000070	1.007517	1.008334	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	0.996725
100.000000	100.166321

Measured offset: -0.004988

Measured gain: 1.001713

Gain correction: 0.998290

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000212	1.000121	-1.000424	-1.000432	0.999974	0.025722
-100.016058	100.015663	-100.015404	-100.015701	100.015907	0.146572

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000088	-0.000221	-0.000226	-0.000151
Final measured gains:	0.999997	0.999991	0.999994	1.000004

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000094	-0.000137	-0.000042	-0.000011
Final measured offsets stdev:	0.000081	0.000102	0.000157	0.000172
Final measured gains mean:	0.999989	0.999990	0.999992	1.000001
Final measured gains stdev:	0.000007	0.000005	0.000003	0.000011

Saving channel 2 calibration constants to qspi

Test data reviewed by \_\_\_\_\_ Date\_\_\_\_\_