

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0030
2026-01-04 12:34:12

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{4}Chan1
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001122	1.001840	-1.028229	-1.026315	1.001283	0.024467
-50.007539	50.041465	-49.683655	-49.668552	50.122845	0.036309

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.000039	-0.034277	-0.032632	0.000000
Initial measured gains:	1.000678	0.992838	0.992569	1.001671
Gain corrections:	1.000678	1.007214	1.007487	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	1.000126
50.000000	50.115559

Measured offset: -0.002230

Measured gain: 1.002356

Gain correction: 0.997650

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000851	1.000785	-1.000954	-1.001046	1.000715	0.019736
-50.007790	50.007255	-50.006969	-50.006985	50.007557	0.059467

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000056	-0.000122	-0.000215	-0.000078
Final measured gains:	0.999990	0.999981	0.999980	1.000008

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000018	-0.000029	-0.000096	0.000143
Final measured offsets stdev:	0.000086	0.000062	0.000080	0.000174
Final measured gains mean:	0.999981	0.999982	0.999979	0.999994
Final measured gains stdev:	0.000008	0.000002	0.000004	0.000012

Saving channel 1 calibration constants to qspi

lab{4}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000527	1.011698	-1.057601	-1.061477	1.003811	0.018592
-100.015436	100.048782	-99.324051	-99.338943	100.202103	0.147926

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.010946	-0.064637	-0.068402	0.000000
Initial measured gains:	1.000224	0.992441	0.992552	1.001628
Gain corrections:	1.000224	1.007617	1.007504	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	1.003364
100.000000	100.187241

Measured offset: 0.001507

Measured gain: 1.001857

Gain correction: 0.998146

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000294	1.000210	-1.000550	-1.000668	1.003608	0.015953
-100.015784	100.014585	-100.014595	-100.014717	100.019501	0.145488

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000072	-0.000271	-0.000389	0.003382
Final measured gains:	0.999989	0.999985	0.999985	1.000015

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000110	-0.000201	-0.000282	0.003378
Final measured offsets stdev:	0.000075	0.000073	0.000098	0.000143
Final measured gains mean:	0.999983	0.999981	0.999982	0.999997
Final measured gains stdev:	0.000004	0.000006	0.000003	0.000011

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____