

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0014
2026-01-12 17:58:16

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
-1.000637	1.003630	-1.028824	-1.027302	0.996603	0.043821
-50.008287	50.006525	-49.640903	-49.650604	49.963093	0.057397

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003090	-0.036264	-0.034512	0.000000
Initial measured gains:	0.999903	0.991928	0.992157	0.999257
Gain corrections:	0.999903	1.008137	1.007905	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	0.996105
50.000000	49.954662

Measured offset: -0.003049

Measured gain: 0.999154

Gain correction: 1.000846

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000699	1.000606	-1.000822	-1.000841	1.000106	0.035040
-50.008343	50.008256	-50.008026	-50.008148	50.006927	0.074105

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000093	-0.000133	-0.000149	-0.000484
Final measured gains:	1.000000	0.999991	0.999993	0.999983

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.333073	-4.695953	4.192533	-0.000324
Final measured offsets stdev:	0.666565	9.391622	8.385325	0.000379
Final measured gains mean:	0.999965	0.657043	0.887611	0.799996
Final measured gains stdev:	0.000064	0.685891	0.224757	0.399998

Saving channel 1 calibration constants to qspi

lab{5}Chan2
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999968	1.019548	-1.062841	-1.059226	1.006288	0.012883
-100.015635	100.018726	-99.282219	-99.373253	100.196373	0.126467

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.019746	-0.070915	-0.066344	0.000000
Initial measured gains:	0.999833	0.991958	0.992914	1.001928
Gain corrections:	0.999833	1.008107	1.007137	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	1.006633
100.000000	100.181046

Measured offset: 0.004872

Measured gain: 1.001762

Gain correction: 0.998241

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000122	0.999955	-1.000185	-1.000070	1.003303	0.019215
-100.015713	100.015251	-100.015099	-100.015404	100.016312	0.131558

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000164	-0.000070	0.000049	0.003371
Final measured gains:	0.999997	0.999993	0.999997	0.999977

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000193	-0.000209	-0.000267	0.003389
Final measured offsets stdev:	0.000154	0.000175	0.000206	0.000132
Final measured gains mean:	0.999990	0.999988	0.999990	0.999994
Final measured gains stdev:	0.000006	0.000008	0.000006	0.000011

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____

