

Report of Calibration
PSC 2CH-HSS-AR-QD-QF_S/N 0015
2026-01-08 17:01:36

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
-1.002072	0.991659	-1.024084	-1.024818	0.999943	0.024864
-50.007762	49.992236	-49.628716	-49.640404	50.076187	0.109668

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.010309	-0.030213	-0.030723	0.000000
Initial measured gains:	0.999896	0.991816	0.992040	1.001544
Gain corrections:	0.999896	1.008251	1.008024	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	0.998166
50.000000	50.068798

Measured offset: -0.003275
Measured gain: 1.001441
Gain correction: 0.998561

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001998	1.001953	-1.001994	-1.002097	1.001628	0.034938
-50.007899	50.005650	-50.006641	-50.006752	50.005424	0.047024

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000001	-0.000021	-0.000124	-0.000327
Final measured gains:	0.999955	0.999974	0.999975	1.000002

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000032	-0.000013	-0.000049	0.000311
Final measured offsets stdev:	0.000187	0.000172	0.000185	0.000738
Final measured gains mean:	0.999981	0.999984	0.999984	1.000002
Final measured gains stdev:	0.000016	0.000009	0.000009	0.000007

Saving channel 1 calibration constants to qspi

Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001323	0.988172	-1.056814	-1.064690	0.998979	0.019531
-100.014657	100.008997	-99.286842	-99.329491	100.257515	0.141437

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	0.013227	-0.063413	-0.070937	0.000000
Initial measured gains:	1.000076	0.992089	0.992440	1.002401
Gain corrections:	1.000076	1.007974	1.007618	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	0.997882
100.000000	100.243645

Measured offset: -0.004600

Measured gain: 1.002482

Gain correction: 0.997524

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.001240	1.001061	-1.001461	-1.001515	1.002410	0.019758
-100.015120	100.013566	-100.013771	-100.014351	100.013184	0.140328

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000165	-0.000236	-0.000286	0.001367
Final measured gains:	0.999986	0.999984	0.999989	0.999983

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000195	-0.000183	-0.000041	0.001688
Final measured offsets stdev:	0.000144	0.000144	0.000187	0.000386
Final measured gains mean:	0.999984	0.999984	0.999988	0.999988
Final measured gains stdev:	0.000005	0.000003	0.000002	0.000005

Saving channel 2 calibration constants to qspi

Test data reviewed by _____ Date_____

