

Report of Calibration  
PSC 2CH-HSS-AR-QD-QF\_S/N 0011  
2025-10-13 11:37:55

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
-1.000677	1.004880	-1.027581	-1.026593	1.001862	0.022852
-50.002911	50.023234	-49.650330	-49.669682	50.133110	0.080387

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.003874	-0.034653	-0.033250	0.000000
Initial measured gains:	1.000329	0.992256	0.992671	1.002303
Gain corrections:	1.000329	1.007805	1.007383	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	1.001040
50.000000	50.130276

Measured offset: -0.001598  
Measured gain: 1.002637  
Gain correction: 0.997369

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-1.000470	1.000434	-1.000613	-1.000675	1.000014	0.022790
-50.003020	50.002427	-50.002552	-50.002686	50.001904	0.066982

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000025	-0.000155	-0.000216	-0.000418
Final measured gains:	0.999989	0.999988	0.999989	0.999998

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000181	-0.000106	-0.000144	-0.000028
Final measured offsets stdev:	0.000482	0.000065	0.000090	0.000334
Final measured gains mean:	0.999981	0.999986	0.999987	0.999998
Final measured gains stdev:	0.000024	0.000011	0.000010	0.000010

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
-1.000047	1.015708	-1.061175	-1.061773	1.006836	0.015571
-100.004889	100.057659	-99.375153	-99.334175	100.252472	0.156416

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.015286	-0.068107	-0.069124	0.000000
Initial measured gains:	1.000375	0.993022	0.992602	1.002057
Gain corrections:	1.000375	1.007027	1.007453	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	1.006694
100.000000	100.248032

Measured offset: 0.004257

Measured gain: 1.002438

Gain correction: 0.997568

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999856	1.000114	-1.000250	-1.000132	1.003669	0.021881
-100.005095	100.003910	-100.004242	-100.004425	100.007133	0.137117

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000273	-0.000407	-0.000286	0.003558
Final measured gains:	0.999985	0.999987	0.999990	0.999997

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000139	-0.000184	-0.000093	0.003451
Final measured offsets stdev:	0.000088	0.000115	0.000142	0.000133
Final measured gains mean:	0.999985	0.999987	0.999988	0.999991
Final measured gains stdev:	0.000007	0.000003	0.000003	0.000007

Saving channel 2 calibration constants to qspi

Test data reviewed by



Date 10/23/25