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Report of Calibration
PSC 4CH-MSF-AR-Fast XY Corr_S/N 1234
2025-12-17 23:17:39


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{2}Chan4
Burden resistor = 33.3333

Measuring initial gains and offsets
     Itest      dacSP       dcct1       dcct2        dacRB         err
  -1.000436    0.173727   -0.077346   -0.076119     0.166840     3.677933
 -27.001915   26.100055   -0.077230   -0.075938    26.100330     9.999390


                                    dacSP         dcct1         dcct2         dacRB
Initial measured offsets:         0.823817     -0.077350     -0.076126     0.000000
Initial measured gains:           0.997110     -0.000004     -0.000007     1.000276
Gain corrections:                 0.997110-225851.635003-143727.995720     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   0.169087
27.000000   26.100950

Measured offset: -0.828292
Measured gain: 0.997379
Gain correction: 1.002628

Writing gain and offset constants for dacRB to PSC

Verification
     Itest      dacSP       dcct1       dcct2        dacRB         err
  -1.000423    0.887910    0.000000    0.000000     0.887541     0.304392
 -27.001911   26.100055    0.000000    0.000000    26.099760     9.999390


                                    dacSP         dcct1         dcct2         dacRB
Final measured offsets:           0.082142      0.000000      0.000000    -0.000372
Final measured gains:             0.969642     -0.000000     -0.000000     1.000003



                                    dacSP         dcct1         dcct2         dacRB
Final measured offsets mean:      0.082047      0.000000      0.000000    -0.000186
Final measured offsets stdev:     0.000396      0.000000      0.000000     0.000225
Final measured gains mean:        0.969658      0.000000      0.000000     1.000008
Final measured gains stdev:       0.000016      0.000000      0.000000     0.000007

Saving channel 1 calibration constants to qspi
Test data reviewed by _____     Date_____


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