

Instrument A Calibration Data

Traveler Number _____

Traveler Operation(s) _____ Traveler Page(s) _____

Document Title

Nominal and Actual Calibration Data

Instrument A

10/5/2017 12:10

Equipment Used: equipment notes

NOTE: calibration notes

Min and Max PLC Nominal Counts: 0.00 32767.00

Min and Max Nominal EU (units): 0.00 100.00

Measured Counts Measured EU (units)

0.00	0.00
8191.00	90.50
16383.00	128.00
24574.90	156.76
32766.98	181.01

The least squares fit 2 degree polynomial is:

$-1.5035037E-07x^2 + 0.010154652x + 5.4224937$

Measured EU Calcd EU Error % of EU Range

0.00	5.42	5.422	5.422%
90.50	78.51	-11.988	-11.988%
128.00	131.43	3.432	3.432%
156.76	164.17	7.412	7.412%
181.01	176.73	-4.278	-4.278%

Calibrated engineering units for the min and max

PLC counts are as follows:

EU at min and max PLC Counts: 5.4225 176.7323

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Compensate for a non-zero count value at zero EU.
Shift the curve fit up or down by the count value of
the zero EU value (the x-intercept of EU axis).
The adjusted count values vs EU values are:

Adjusted Counts	Measured EU (units)
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529.83	0.00
8720.83	90.50
16912.83	128.00
25104.73	156.76
33296.82	181.01

The least squares fit 2 degree polynomial for the adjusted counts is:
 $-1.5035037E-07x^2 + 0.010313973x + -1.5003897E-06$

Calibrated engineering units for the adjusted
min and max PLC counts are as follows:

EU at min and max PLC Counts: -0.0000 176.5303

Mfg Sign/Date -----

QA Sign/Date -----

Nominal and Actual Calibration Curves

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