

CALIBRATION REPORT

CALIBRATION PROPERTIES

Calibrated by: Kjell Erik Lien

Type/Producer: Torque Transducer T22

SN:

Range: 0 - 5

Unit: Nm

CALIBRATION SOURCE PROPERTIES

Type/Producer: DPI 601

SN: 14206 / 96 - 1

Uncertainty [%]: 0

POLY FIT EQUATION:

$$Y = + 944,41213513E-6X^0 - 995,40563066E-3X^1$$

CALIBRATION SUMMARY:

Max Uncertainty : Inf [%]

Max Uncertainty : 0,020487 [Nm]

RSQ : 0,999897

Calibration points : 11

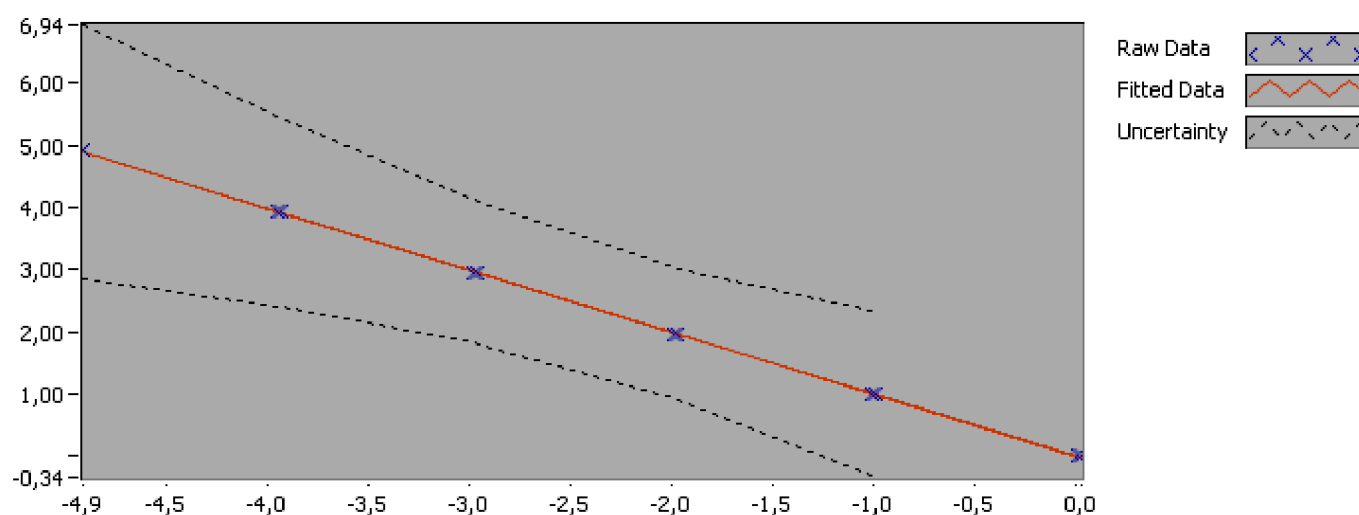


Figure 1 : Calibration chart (The uncertainty band is multiplied by 100)

Kjell Erik Lien

CALIBRATION VALUES

Value [Nm]	Voltage [V]	Best Poly Fit [Nm]	Deviation [Nm]	Uncertainty [%]	Uncertainty [Nm]
0,000000	0,029265	-0,028186	0,028186	Inf	NaN
0,982147	-0,990595	0,986988	-0,004841	1,355004	0,013308
1,964293	-1,974880	1,966751	-0,002458	0,538595	0,010580
2,946440	-2,955901	2,943265	0,003175	0,388595	0,011450
3,928586	-3,935295	3,918159	0,010427	0,389390	0,015298
4,910733	-4,910661	4,889044	0,021689	0,417183	0,020487
3,928586	-3,953614	3,936394	-0,007808	0,391649	0,015386
2,946440	-2,976615	2,963883	-0,017443	0,390532	0,011507
1,964293	-1,993684	1,985469	-0,021176	0,537578	0,010560
0,982147	-1,006986	1,003304	-0,021157	1,348187	0,013241
0,000000	0,012406	-0,011405	0,011405	Inf	NaN

COMMENTS:

The uncertainty is calculated with 95% confidence. The uncertainty includes the randomness in the calibrated instrument during the calibration, systematic uncertainty in the instrument or property which the instrument under calibration is compared with (dead weight manometer, calibrated weights etc.), and due to regression analysis to fit the calibration points to a linear calibration equation. The calculated uncertainty can be used as the total systematic uncertainty of the calibrated instrument with the given calibration equation.