

CALIBRATION REPORT

CALIBRATION PROPERTIES

Calibrated by: Kjell Erik Lien
 Type/Producer: Fuji FCX All-V5
 SN:
 Range: 0-1000
 Unit: Pa

CALIBRATION SOURCE PROPERTIES

Type/Producer: DPI 601
 SN: Wilh. lambrecht GmbH 655
 Uncertainty [%]: 0

POLY FIT EQUATION:

$$Y = -246,78479501E+0X^0 + 121,82188612E+0X^1$$

CALIBRATION SUMMARY:

Max Uncertainty : Inf [%]
 Max Uncertainty : 1,074348 [Pa]
 RSQ : 0,999985
 Calibration points : 15

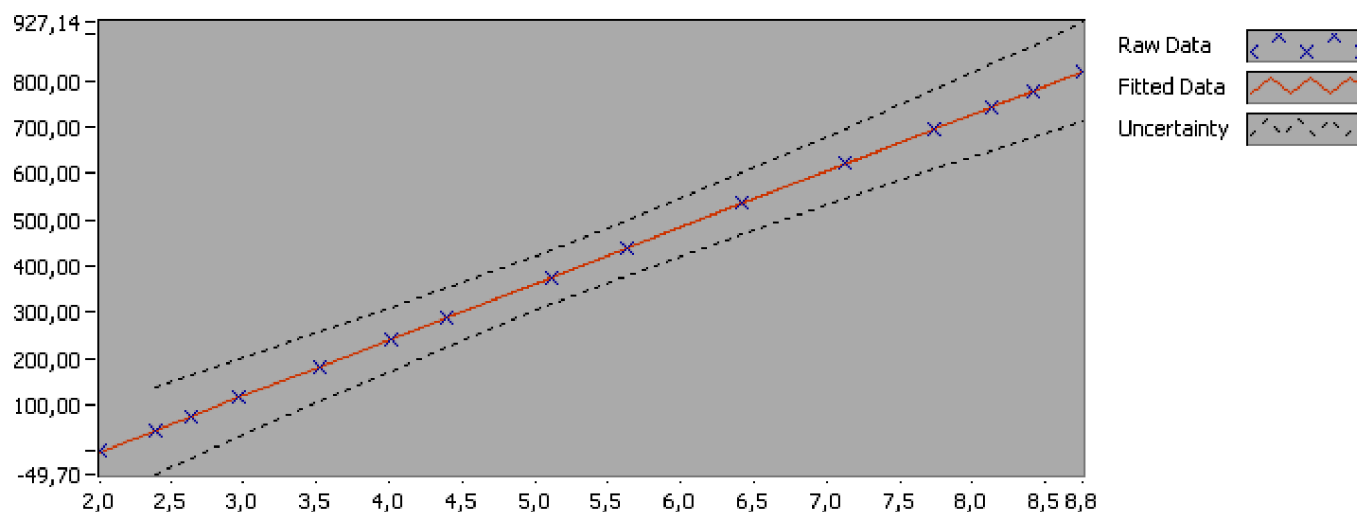


Figure 1 : Calibration chart (The uncertainty band is multiplied by 100)

Kjell Erik Lien

CALIBRATION VALUES

Value [Pa]	Voltage [V]	Best Poly Fit [Pa]	Deviation [Pa]	Uncertainty [%]	Uncertainty [Pa]
0,000000	2,017510	-1,007921	1,007921	Inf	NaN
45,850000	2,399340	45,507343	0,342657	2,076591	0,952117
74,600000	2,642113	75,082399	-0,482399	1,211194	0,903550
115,800000	2,972253	115,300689	0,499311	0,725872	0,840559
183,020000	3,529596	183,197204	-0,177204	0,406780	0,744489
287,940000	4,400060	289,238817	-1,298817	0,219606	0,632332
376,000000	5,112357	376,012117	-0,012117	0,157149	0,590882
438,730000	5,630567	439,141542	-0,411542	0,135814	0,595859
539,000000	6,424274	535,832421	3,167579	0,122220	0,658766
620,960000	7,119047	620,470992	0,489008	0,121846	0,756613
695,570000	7,741817	696,337957	-0,767957	0,124644	0,866986
744,140000	8,134108	744,127595	0,012405	0,126867	0,944070
777,180000	8,408861	777,598535	-0,418535	0,128757	1,000672
819,500000	8,754528	819,708357	-0,208357	0,131098	1,074348
240,200000	4,011814	241,941952	-1,741952	0,281179	0,675392

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.