

# CALIBRATION REPORT

## CALIBRATION PROPERTIES

Calibrated by: Kjell Erik Lien  
 Type/Producer: Fuji FCX All-V5  
 SN:  
 Range: 0-500  
 Unit: Pa

## CALIBRATION SOURCE PROPERTIES

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

## POLY FIT EQUATION:

$$Y = -130,37018386E+0X^0 + 60,81771500E+0X^1$$

## CALIBRATION SUMMARY:

Max Uncertainty : Inf [%]  
 Max Uncertainty : 0,561793 [Pa]  
 RSQ : 0,999988  
 Calibration points : 15

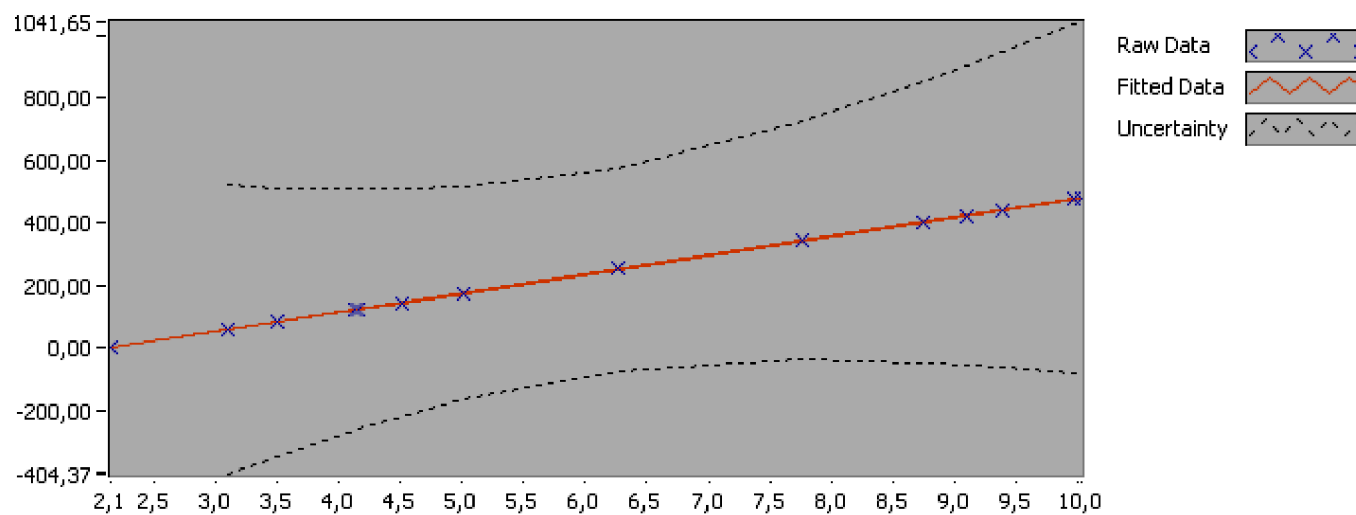


Figure 1 : Calibration chart (The uncertainty band is multiplied by 1000 )

Kjell Erik Lien

**CALIBRATION VALUES**

<b>Value [Pa]</b>	<b>Voltage [V]</b>	<b>Best Poly Fit [Pa]</b>	<b>Deviation [Pa]</b>	<b>Uncertainty [%]</b>	<b>Uncertainty [Pa]</b>
0,000000	2,145535	0,116334	-0,116334	Inf	NaN
57,316000	3,089293	57,513529	-0,197529	0,805858	0,461885
120,070000	4,121412	120,284674	-0,214674	0,321416	0,385925
174,090000	5,006160	174,093057	-0,003057	0,195518	0,340378
252,193000	6,261363	250,431607	1,761393	0,127851	0,322430
341,570000	7,769603	342,159307	-0,589307	0,111110	0,379517
400,240000	8,741196	401,249393	-1,009393	0,112093	0,448640
480,300000	10,033772	479,860899	0,439101	0,116967	0,561793
476,100000	9,972929	476,160551	-0,060551	0,116804	0,556102
0,000000	2,145695	0,126093	-0,126093	Inf	NaN
423,170000	9,104121	423,321652	-0,151652	0,113079	0,478516
441,200000	9,395257	441,027906	0,172094	0,114159	0,503668
143,700000	4,511659	144,018593	-0,318593	0,252667	0,363083
123,200000	4,160599	122,667927	0,532073	0,311250	0,383460
82,200000	3,497133	82,317479	-0,117479	0,522646	0,429615

**COMMENTS:**


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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.