

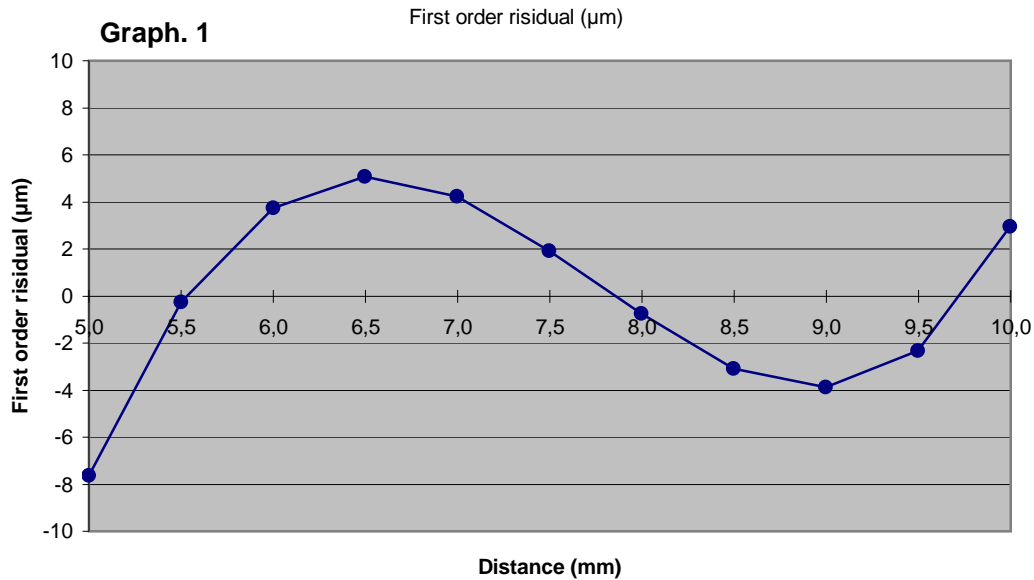
H7DC-038

Date : 19/12/2012

First order linearization

First order regression coefficients

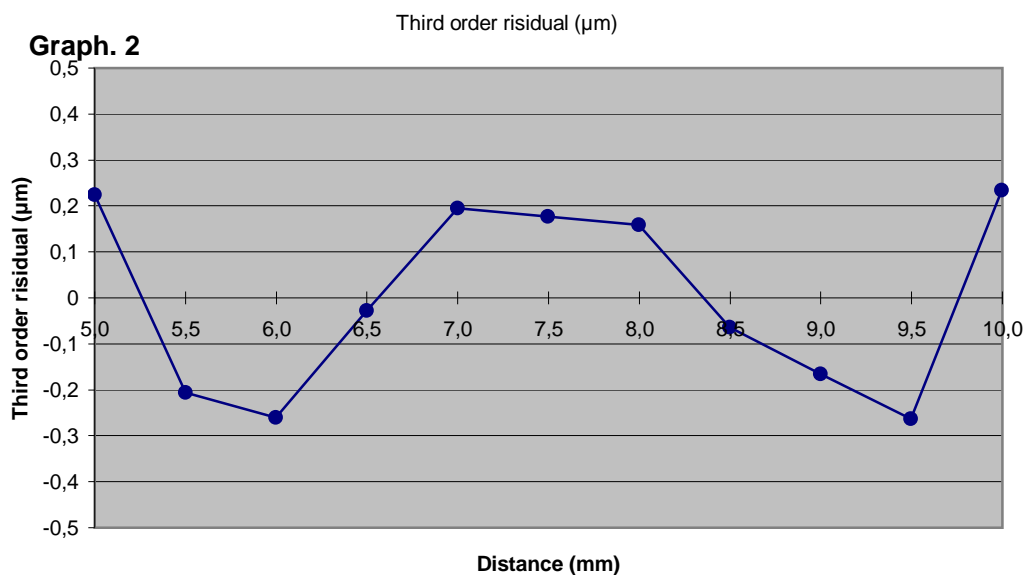
$$d = 5,0074 + 0,49901 V$$



Third order linearization

Third order regression coefficients

$$d = 4,9995 + 0,50913 V - 0,002378 V^2 + 0,0001472 V^3$$



Legend : Linearization polynoms express distance d as a fonction of voltage V

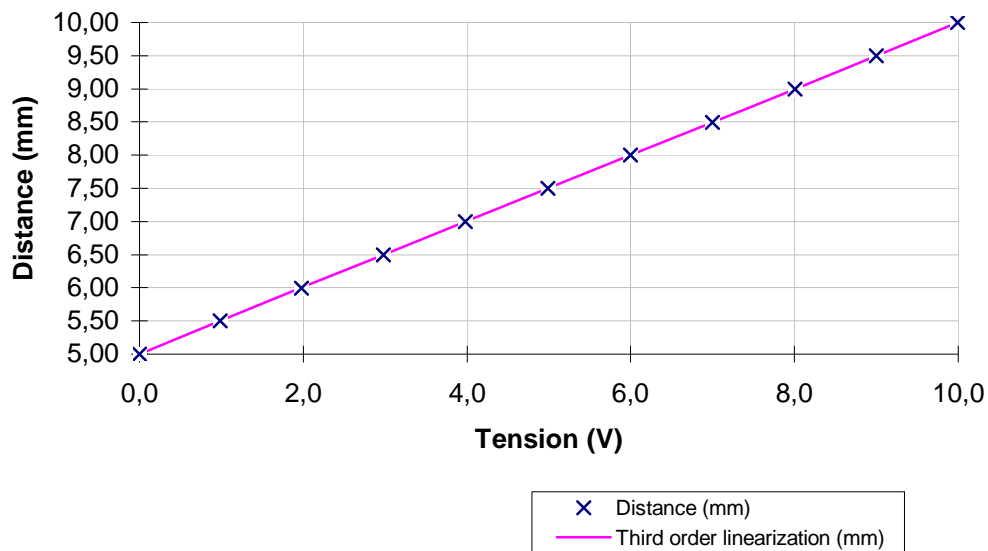
- Distance is in mm

- Voltage is in V

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Sensor linearization



Résultats

Distance (mm)	Voltage (V)
4,9994	-0,0007
5,4992	0,9861
5,9989	1,9795
6,4973	2,9756
6,9978	3,9803
7,4967	4,9847
7,9976	5,9939
8,4965	6,9983
8,9975	8,0039
9,4967	9,0012
9,9975	9,9942