H7DC-032

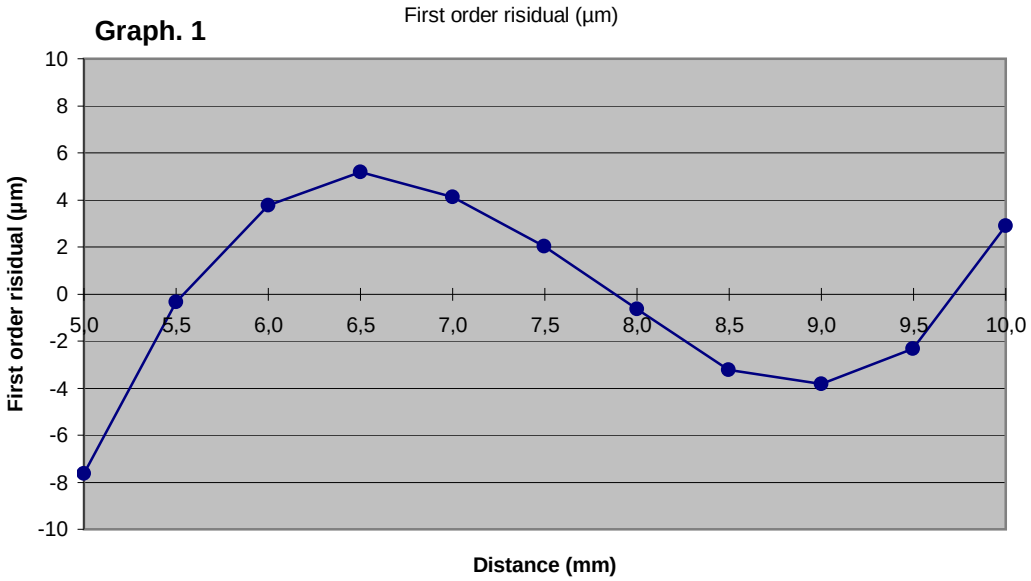
Date : 19/12/2012

First order linearization

First order regression coefficients

d = 5,0079 + 0,49936 V

Graph. 1

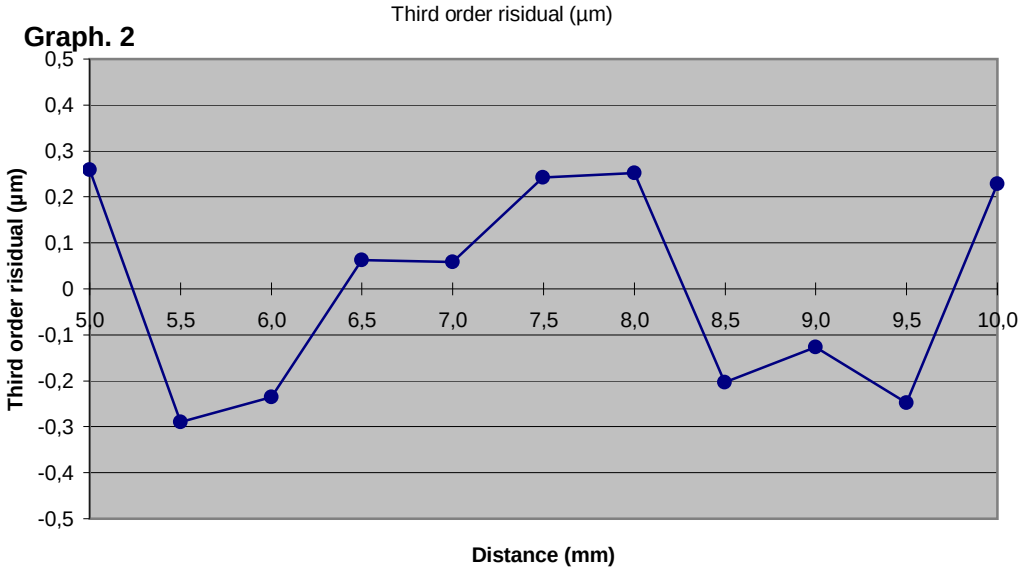


Third order linearization

Third order regression coefficients

d = 5,0000 + 0,50951 V - 0,002382 V^2 + 0,0001473 V^3

Graph. 2



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

- Distance is in mm
- Voltage is in V

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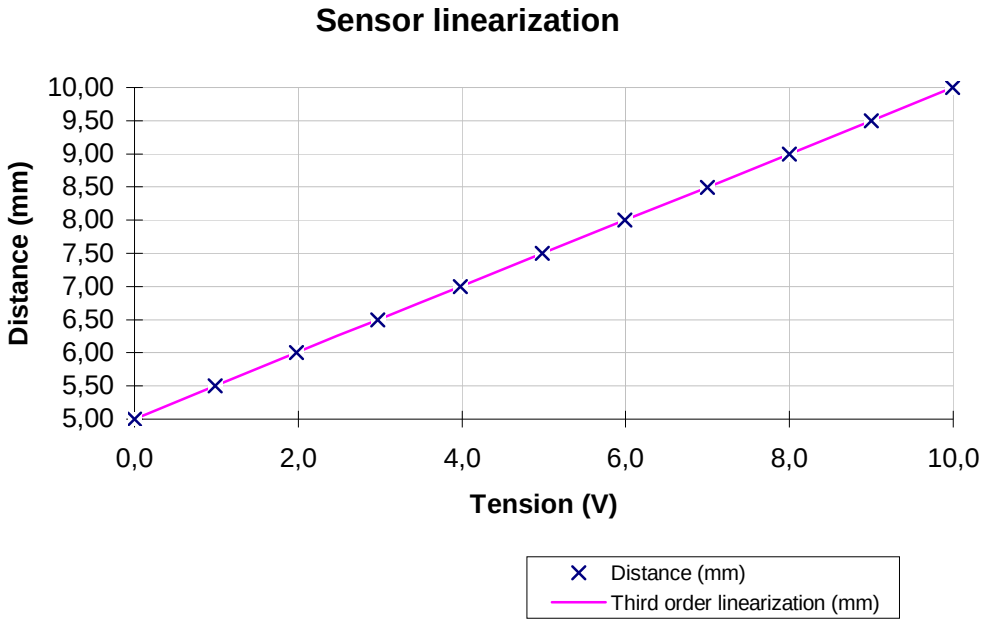

Résults

Distance (mm)	Voltage (V)
5,0001	-0,0004
5,5000	0,9861
5,9999	1,9790
6,4984	2,9745
6,9990	3,9790
7,4982	4,9829
7,9991	5,9914
8,4981	6,9958
8,9990	8,0001
9,4982	8,9968
9,9988	9,9889