H7DC-057

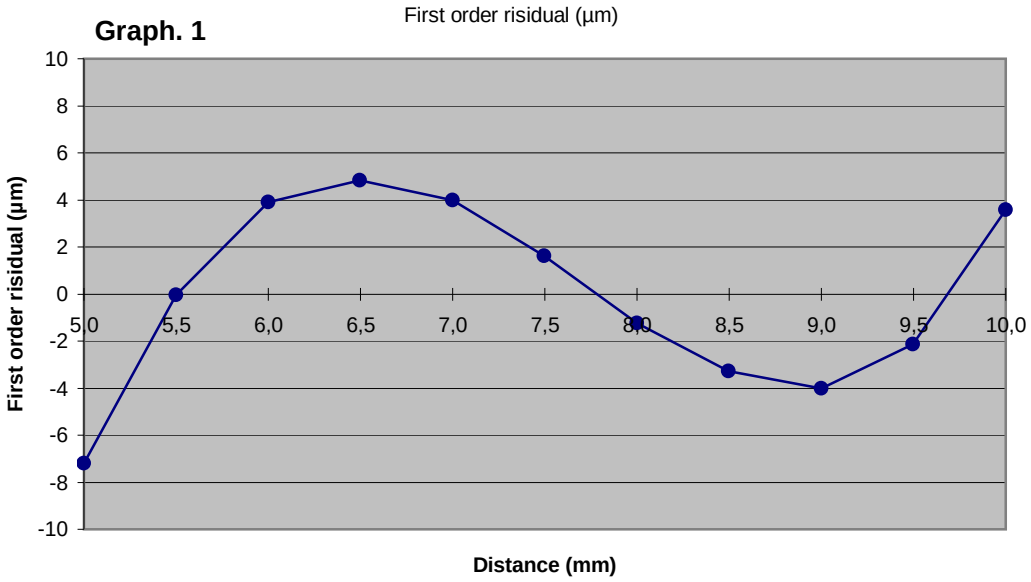
Date : 19/12/2012

First order linearization

First order regression coefficients

d = 5,0069 + 0,49843 V

Graph. 1

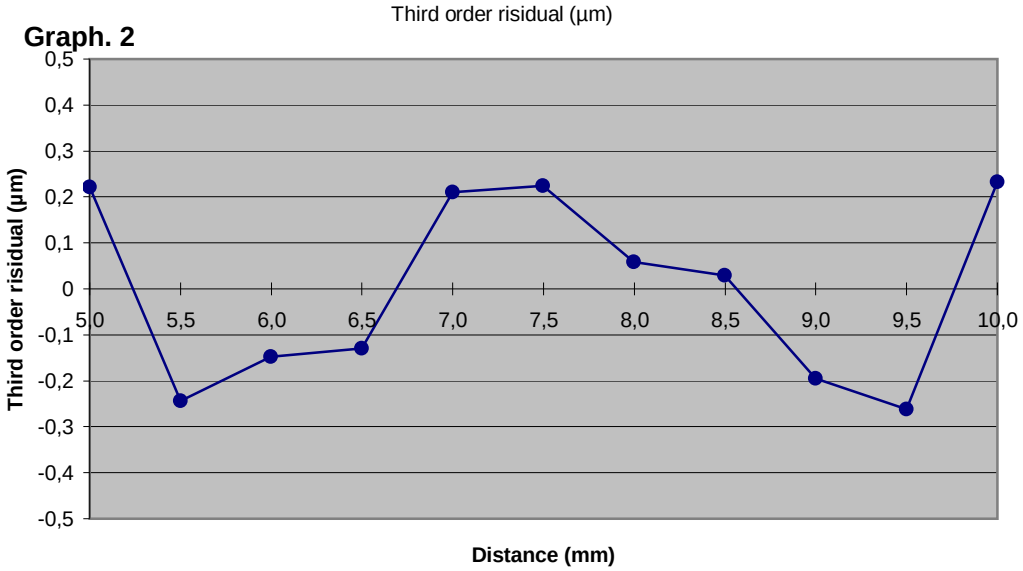


Third order linearization

Third order regression coefficients

d = 4,9995 + 0,50835 V - 0,002378 V^2 + 0,0001493 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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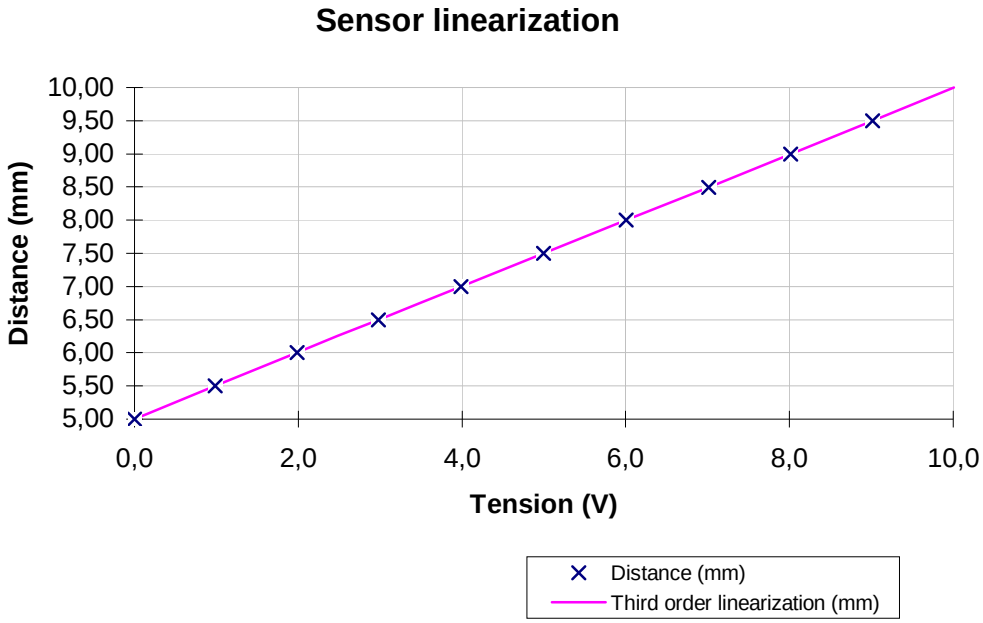

Résults

Distance (mm)	Voltage (V)
4,9997	-0,0001
5,4997	0,9887
5,9995	1,9835
6,4980	2,9818
6,9986	3,9879
7,4978	4,9942
7,9986	6,0046
8,4977	7,0101
8,9985	8,0163
9,4979	9,0145
9,9984	10,0072