H7DC-037

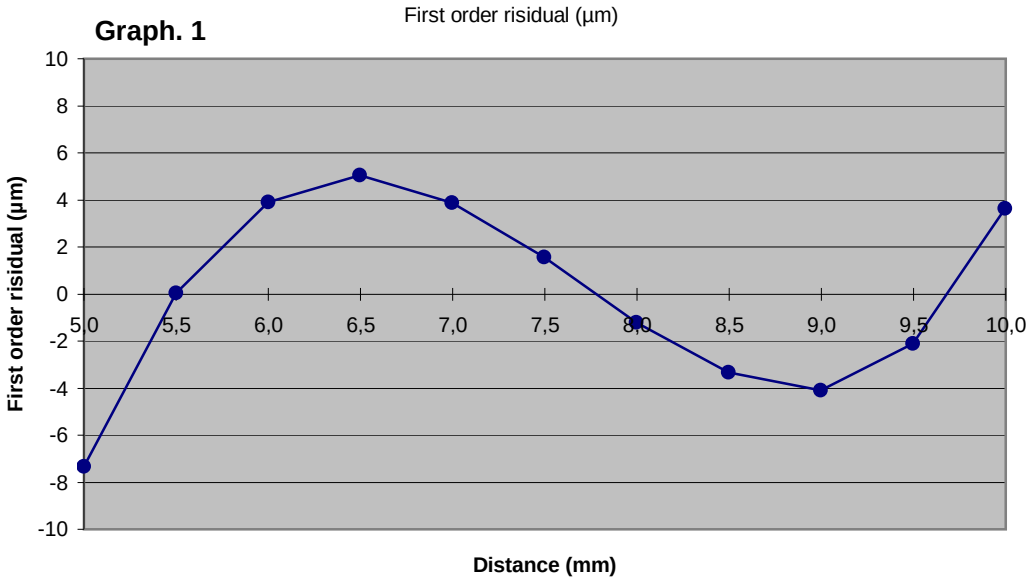
Date : 19/12/2012

First order linearization

First order regression coefficients

d = 5,0065 + 0,49893 V

Graph. 1

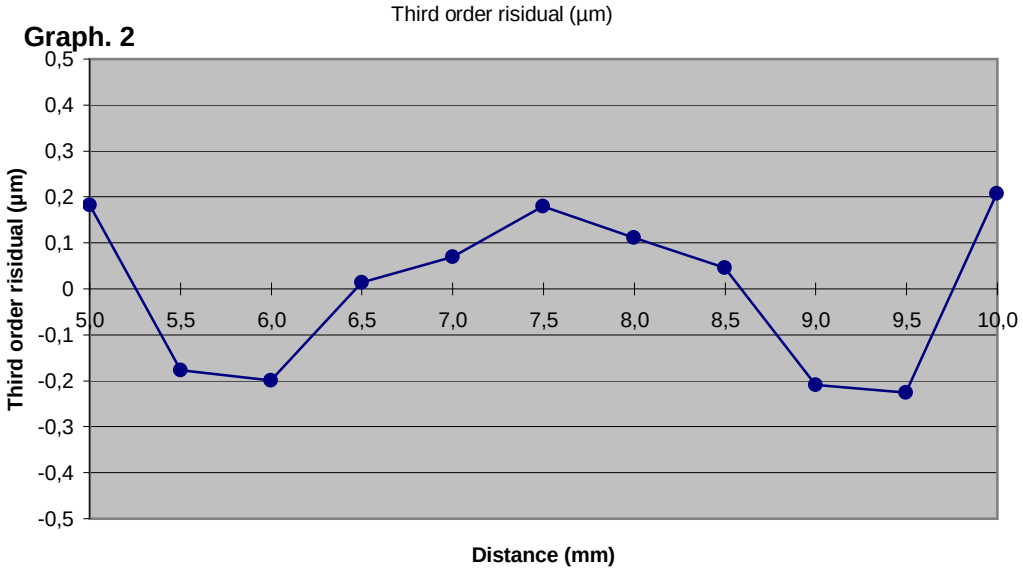


Third order linearization

Third order regression coefficients

d = 4,9990 + 0,50900 V - 0,002419 V^2 + 0,0001522 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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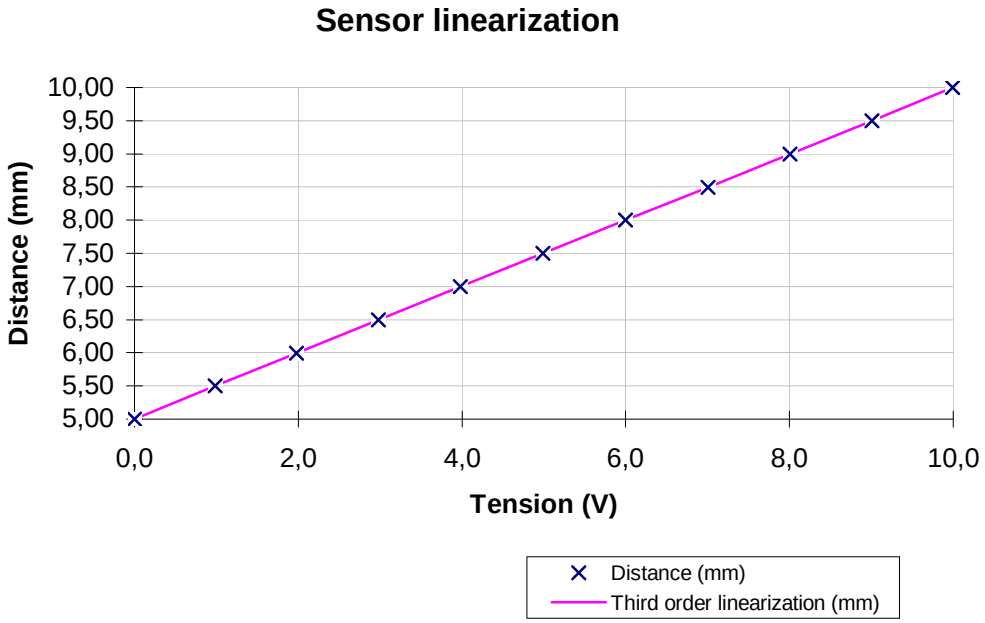

Résults

Distance (mm)	Voltage (V)
4,9993	0,0003
5,4992	0,9875
5,9988	1,9811
6,4972	2,9777
6,9976	3,9830
7,4968	4,9882
7,9975	5,9973
8,4965	7,0017
8,9973	8,0070
9,4967	9,0040
9,9973	9,9958