H7DC-048

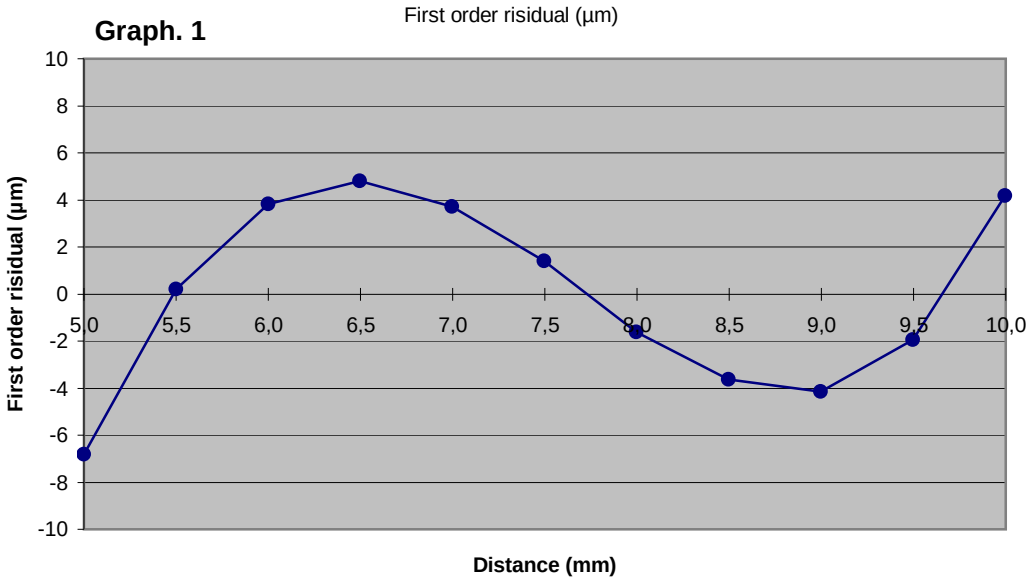
Date : 19/12/2012

First order linearization

First order regression coefficients

d = 5,0067 + 0,49888 V

Graph. 1

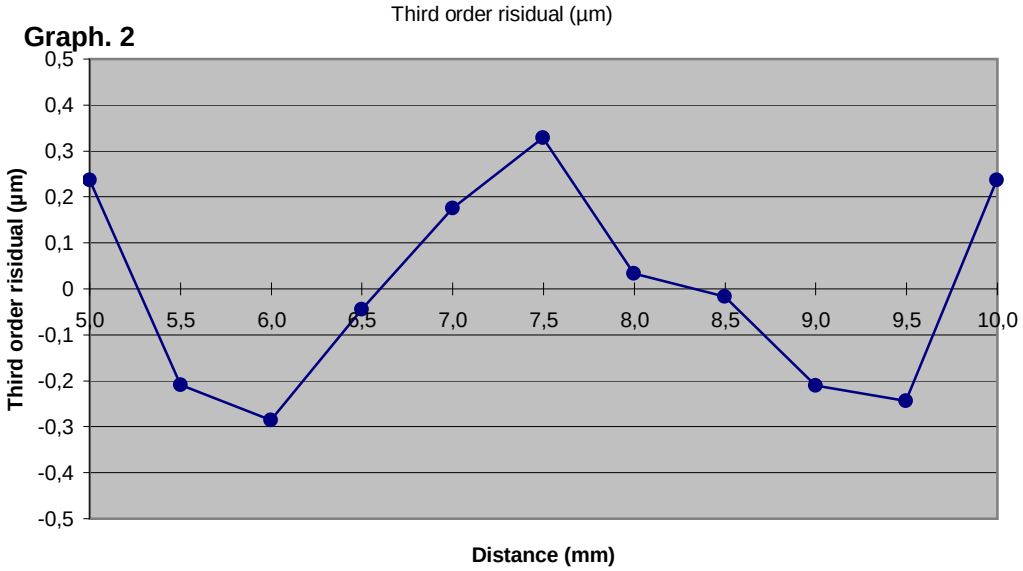


Third order linearization

Third order regression coefficients

d = 4,9997 + 0,50866 V - 0,002401 V^2 + 0,0001532 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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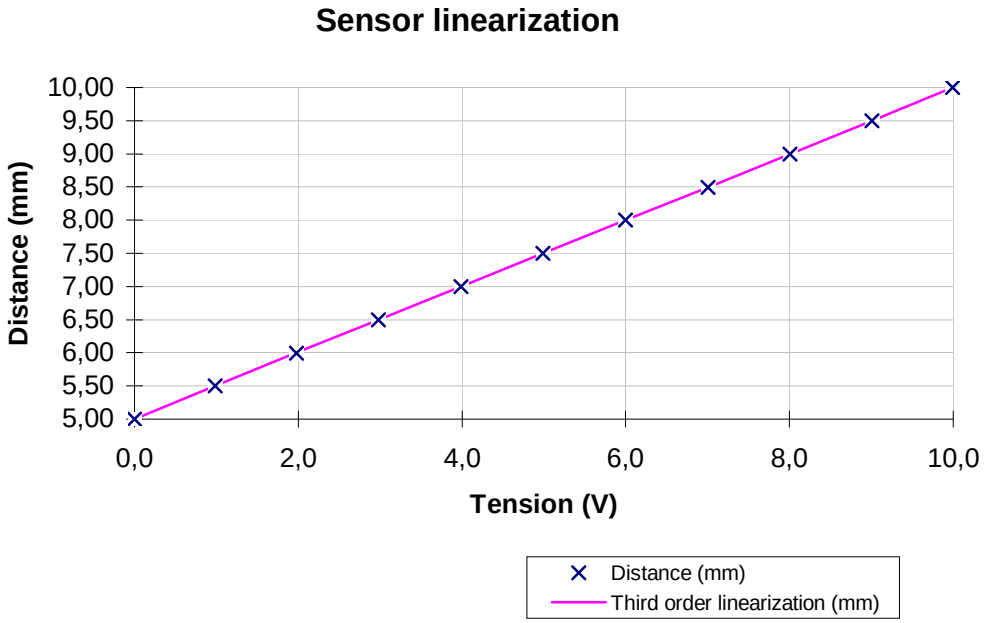

Résults

Distance (mm)	Voltage (V)
4,9994	-0,0010
5,4992	0,9867
5,9989	1,9811
6,4973	2,9782
6,9978	3,9837
7,4968	4,9886
7,9977	5,9986
8,4966	7,0027
8,9976	8,0080
9,4968	9,0043
9,9976	9,9958