H7DC-053

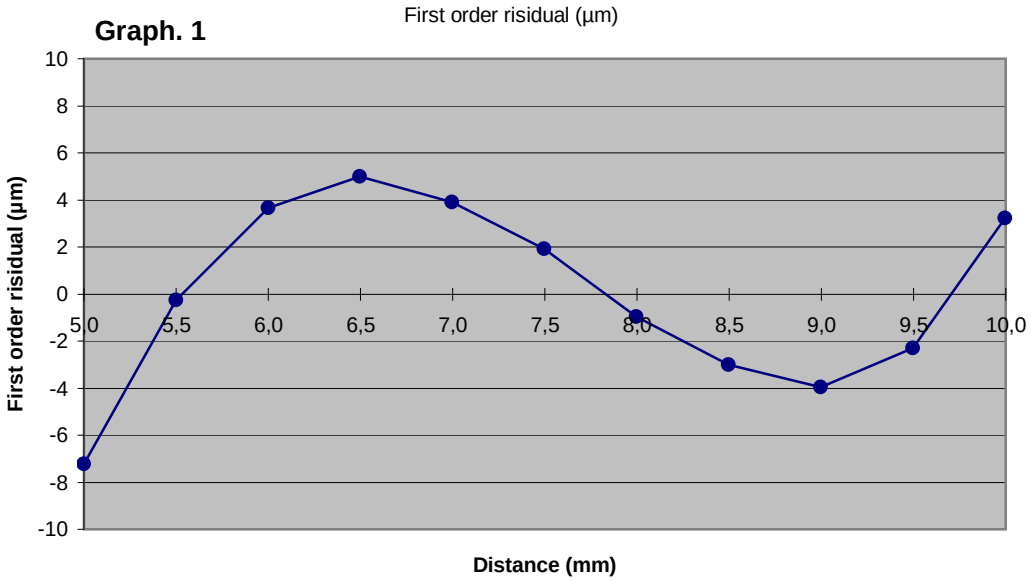
Date : 19/12/2012

First order linearization

First order regression coefficients

d = 5,0074 + 0,49874 V

Graph. 1

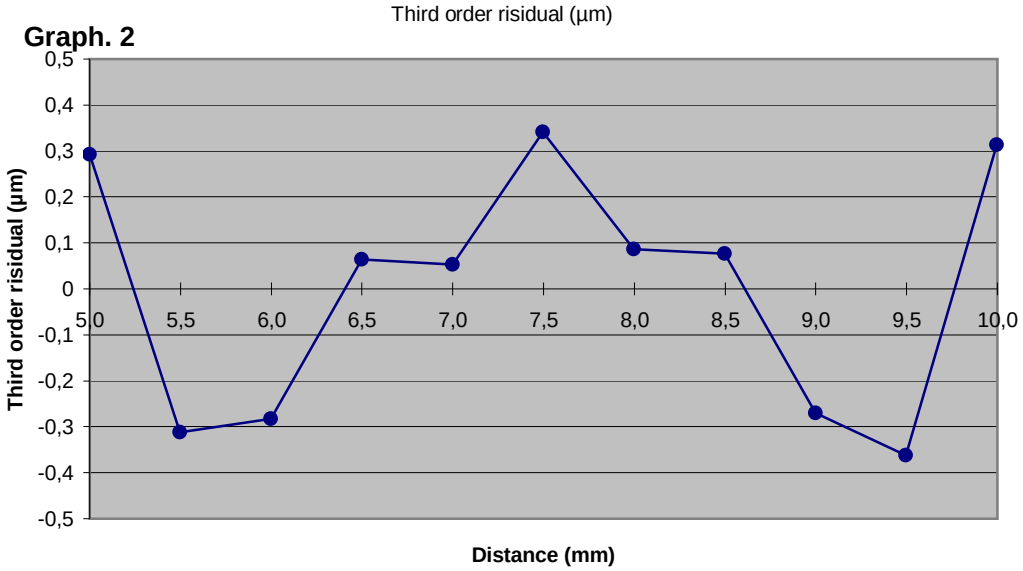


Third order linearization

Third order regression coefficients

d = 4,9999 + 0,50857 V - 0,002330 V^2 + 0,0001451 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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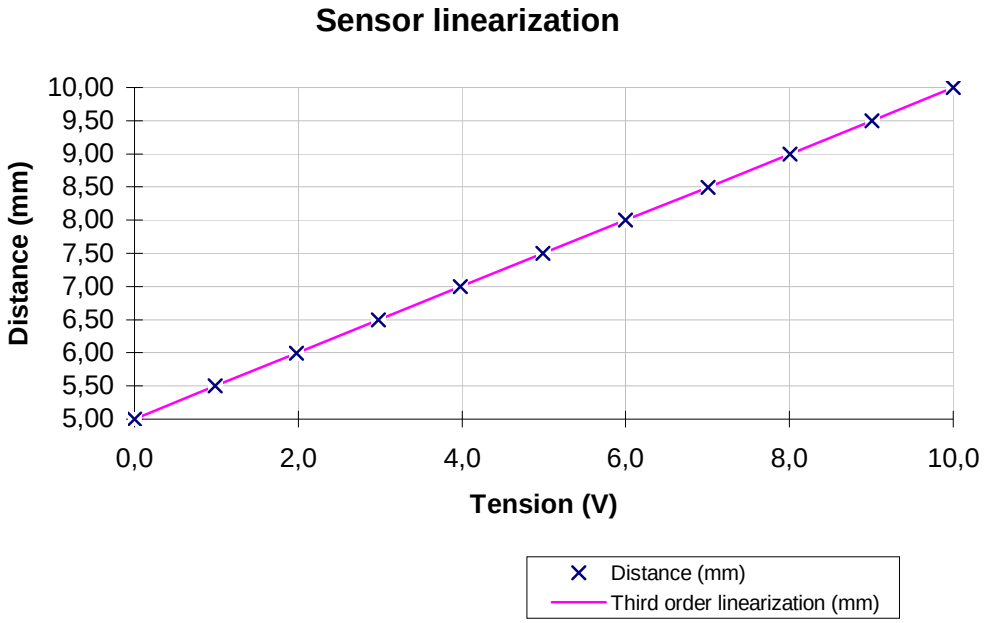

Résults

Distance (mm)	Voltage (V)
4,9991	-0,0022
5,4989	0,9859
5,9987	1,9802
6,4972	2,9770
6,9978	3,9829
7,4971	4,9881
7,9979	5,9979
8,4969	7,0026
8,9978	8,0088
9,4972	9,0068
9,9978	9,9994