H7DC-056
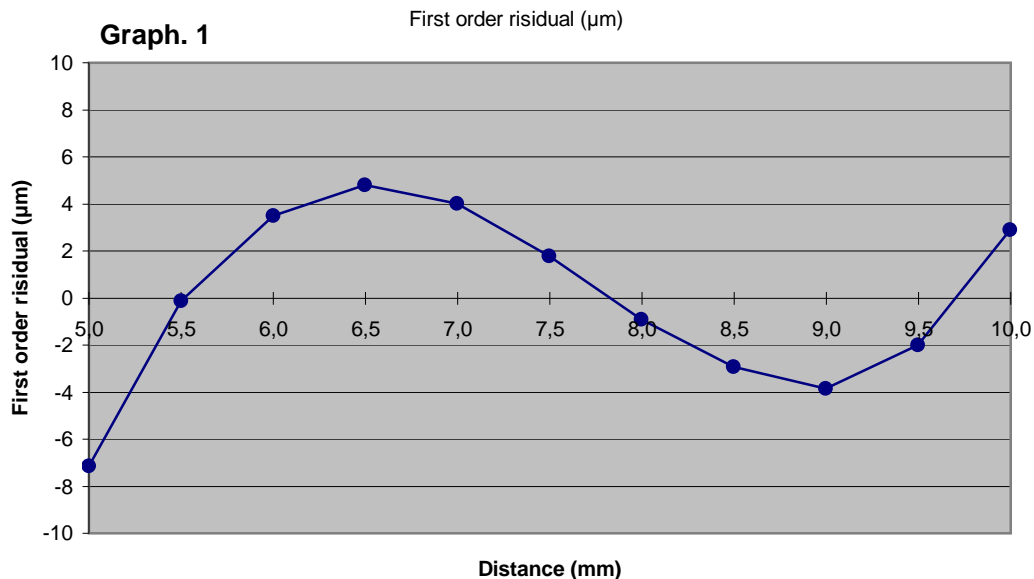
Date :   19/12/2012

First order linearization

First order regression coefficients
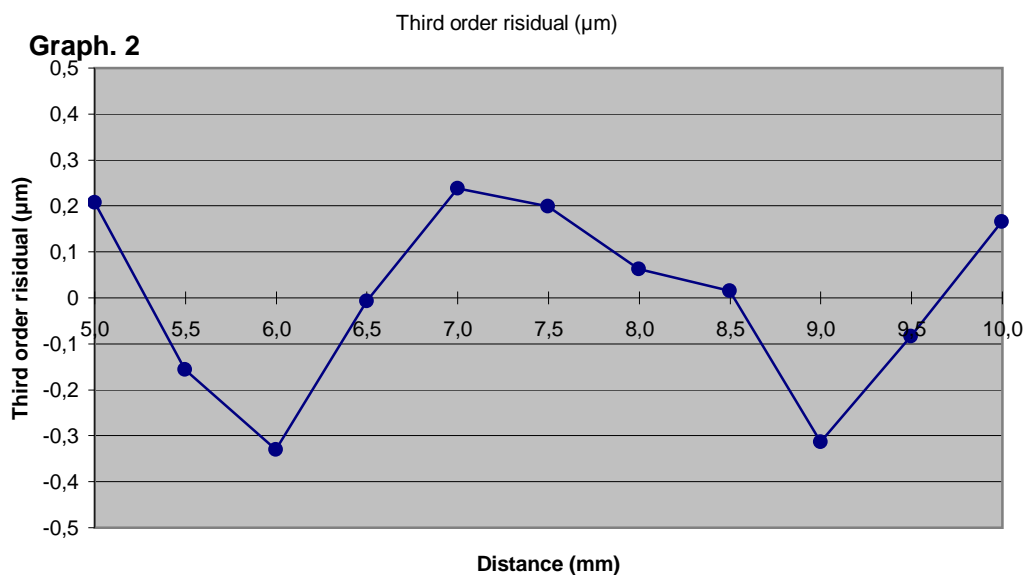$$d = 5{,}0071 + 0{,}49854\ V$$

First order risidual (µm)

Graph. 1

Third order linearization

Third order regression coefficients
$$d = 4{,}9998 + 0{,}50810\ V - 0{,}002256\ V^2 + 0{,}0001401\ V^3$$

Third order risidual (µm)

Graph. 2

Legend :   Linearization polynoms express distance d as a fonction of voltage V
- Distance is in mm
- Voltage is in V

H7DC-056

Sensor linearization

×	Distance (mm)
—	Third order linearization (mm)
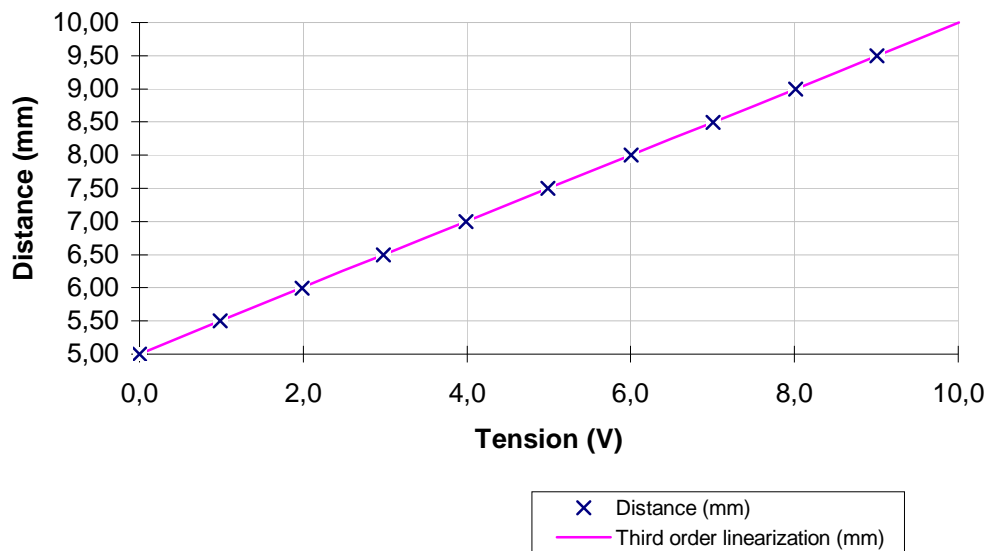
Résults

Distance (mm)	Voltage (V)
4,9991	-0,0017
5,4989	0,9867
5,9988	1,9822
6,4972	2,9793
6,9979	3,9852
7,4970	4,9908
7,9979	6,0009
8,4969	7,0059
8,9978	8,0125
9,4971	9,0102
9,9977	10,0045