H7DC-059

First order linearization

First order regression coefficients
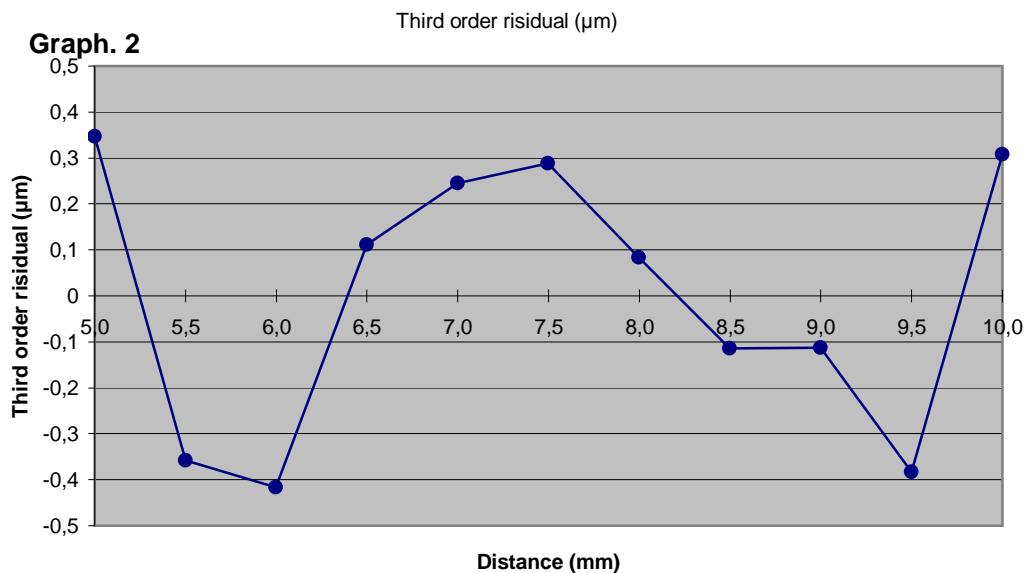$$d = 5{,}0076 + 0{,}49905\ V$$

First order risidual (µm)

Graph. 1
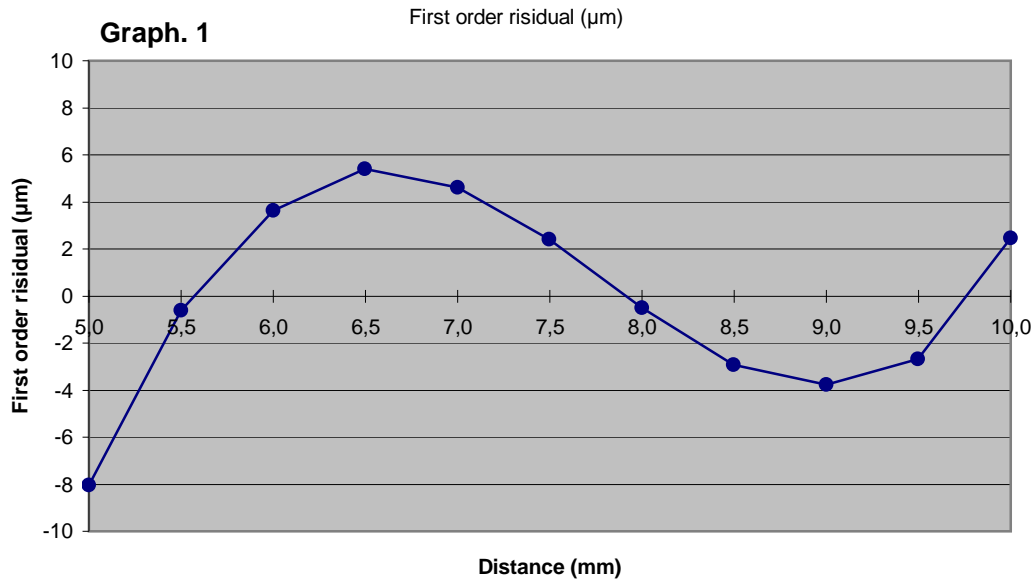
Third order linearization

Third order regression coefficients
$$d = 4{,}9992 + 0{,}50952\ V - 0{,}002411\ V^2 + 0{,}0001469\ V^3$$

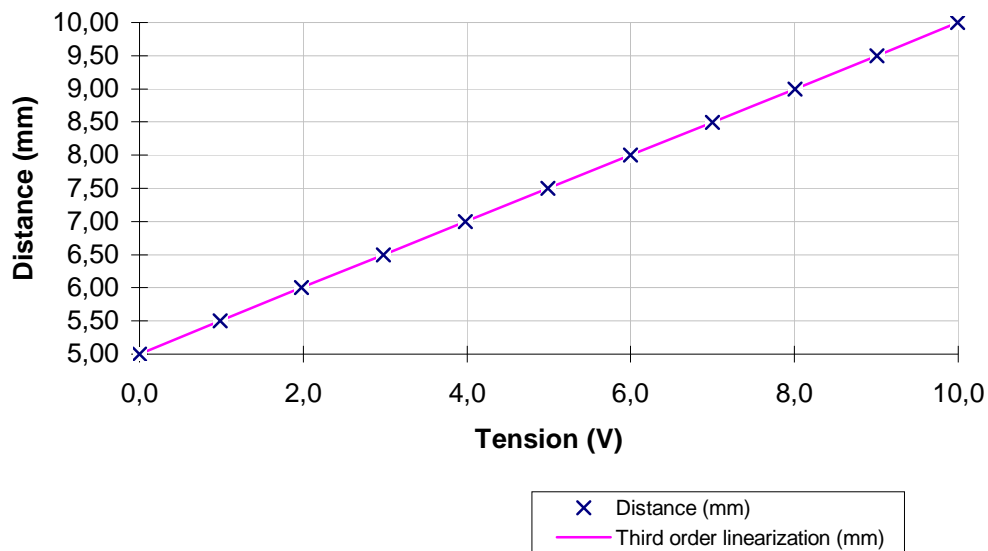Third order risidual (µm)

Graph. 2

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

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Date :   19/12/2012

Sensor linearization

Résults

Distance (mm)	Voltage (V)
4,9998	0,0004
5,4997	0,9872
5,9996	1,9805
6,4981	2,9758
6,9988	3,9807
7,4980	4,9854
7,9989	5,9949
8,4978	6,9995
8,9988	8,0051
9,4980	9,0032
9,9986	9,9960