

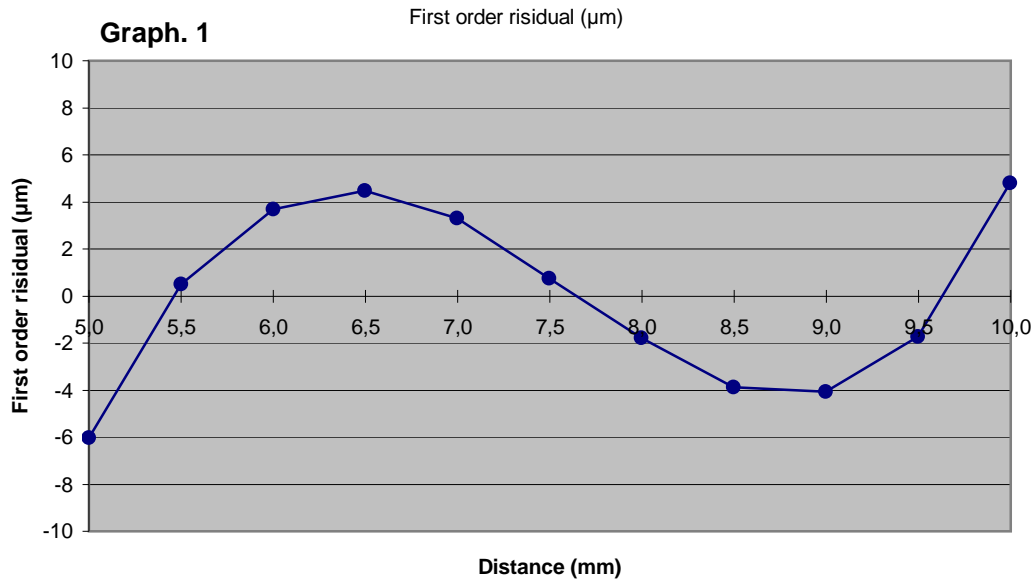
H7DC-054

Date : 19/12/2012

First order linearization

First order regression coefficients

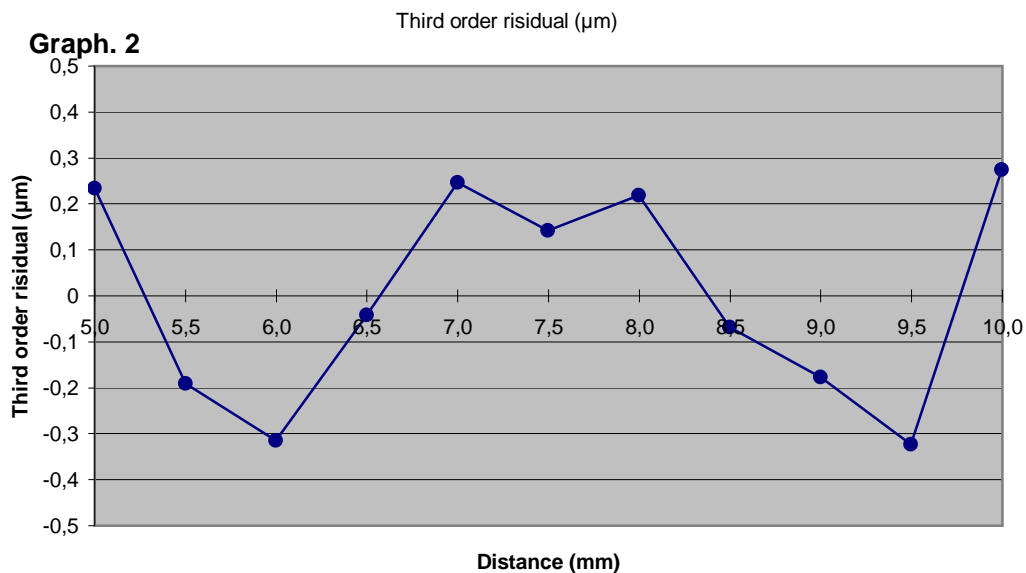
$$d = 5,0058 + 0,49875 V$$



Third order linearization

Third order regression coefficients

$$d = 4,9996 + 0,50791 V - 0,002309 V^2 + 0,0001501 V^3$$



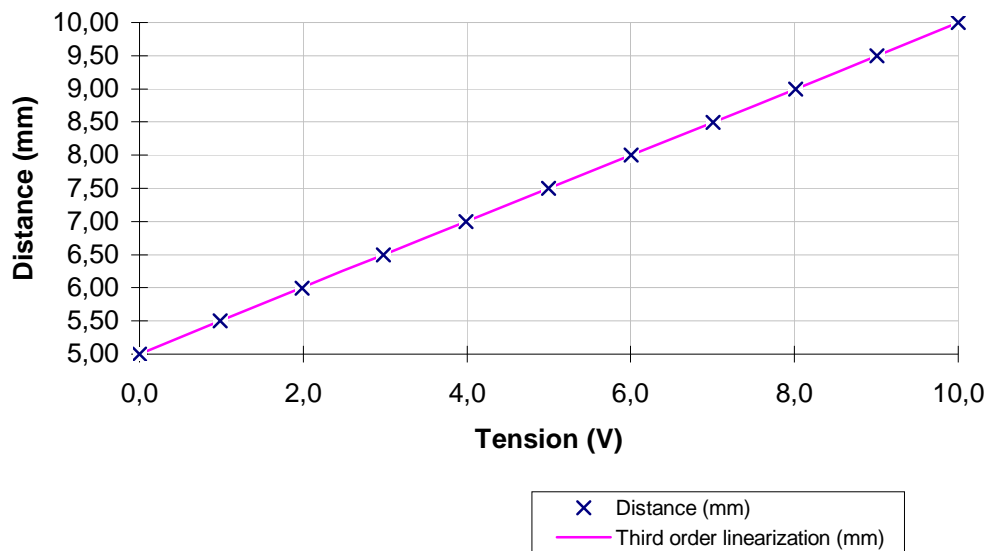
Legend : Linearization polynoms express distance d as a fonction of voltage V

- Distance is in mm
- Voltage is in V

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Sensor linearization



Résultats

Distance (mm)	Voltage (V)
4,9992	-0,0012
5,4991	0,9881
5,9989	1,9838
6,4974	2,9817
6,9980	3,9877
7,4972	4,9938
7,9981	6,0032
8,4970	7,0077
8,9980	8,0126
9,4973	9,0090
9,9980	9,9998