

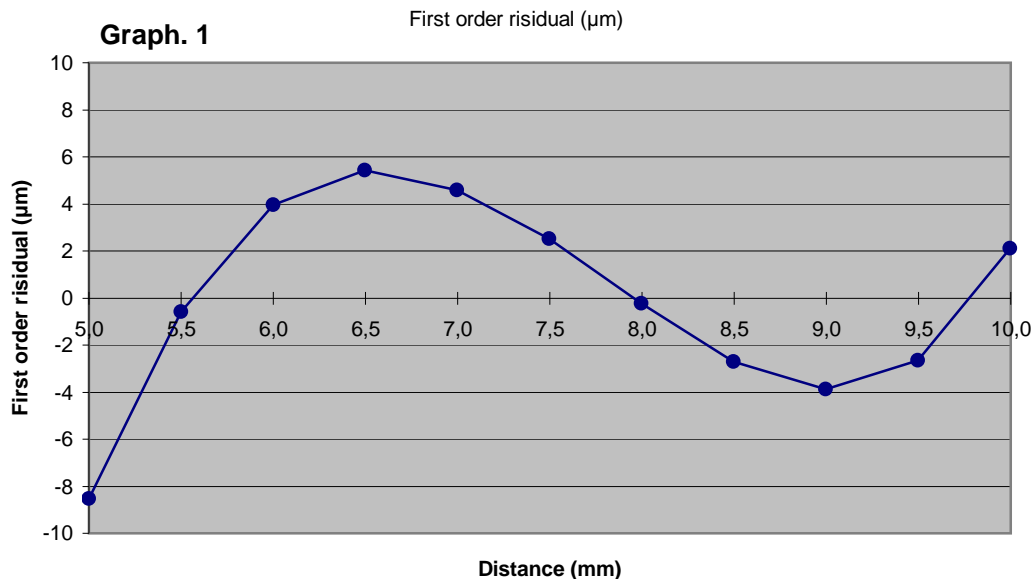
H7DC-035

Date : 19/12/2012

First order linearization

First order regression coefficients

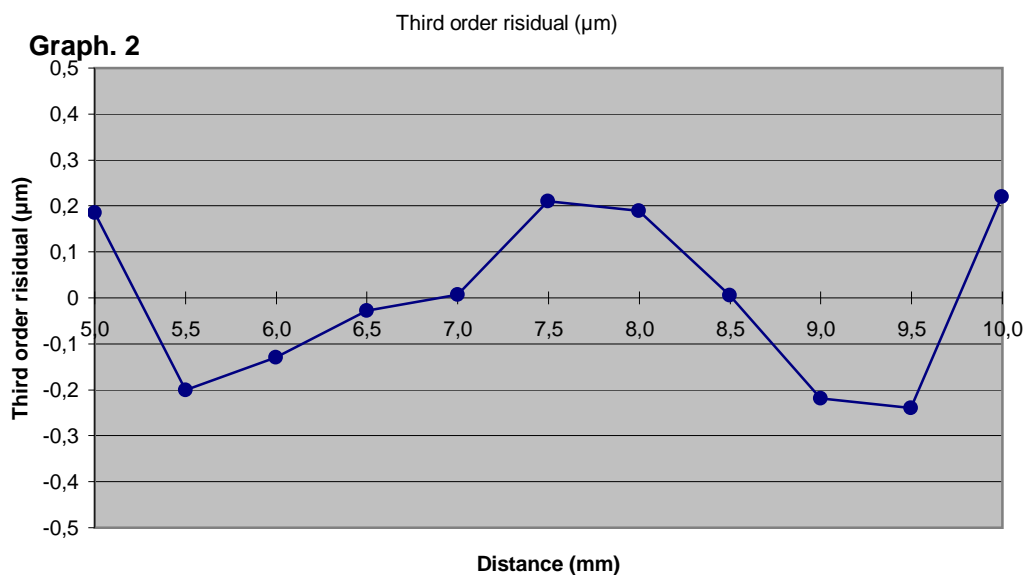
$$d = 5,0080 + 0,49898 V$$



Third order linearization

Third order regression coefficients

$$d = 4,9993 + 0,50971 V - 0,002445 V^2 + 0,0001479 V^3$$



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

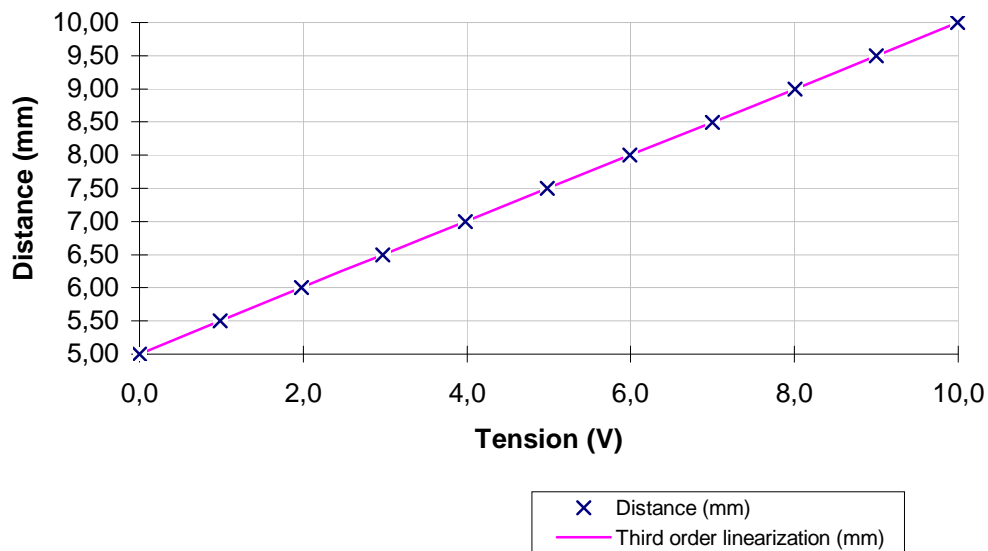
- Distance is in mm

- Voltage is in V

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Sensor linearization



Résults

Distance (mm)	Voltage (V)
4,9995	0,0001
5,4993	0,9858
5,9991	1,9783
6,4974	2,9740
6,9979	3,9788
7,4969	4,9829
7,9977	5,9921
8,4965	6,9967
8,9974	8,0029
9,4966	9,0008
9,9974	9,9949