

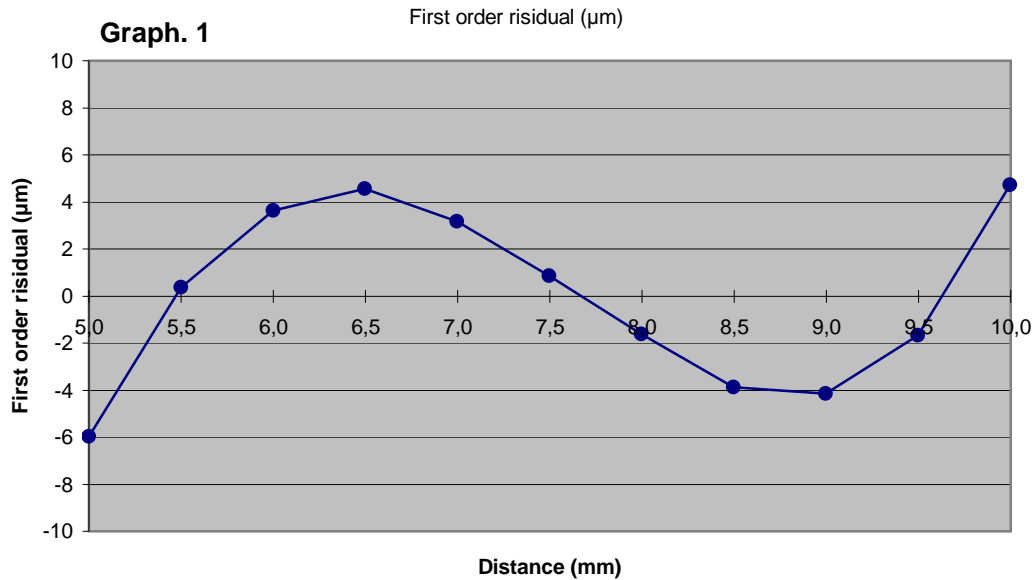
H7DC-060

Date : 19/12/2012

First order linearization

First order regression coefficients

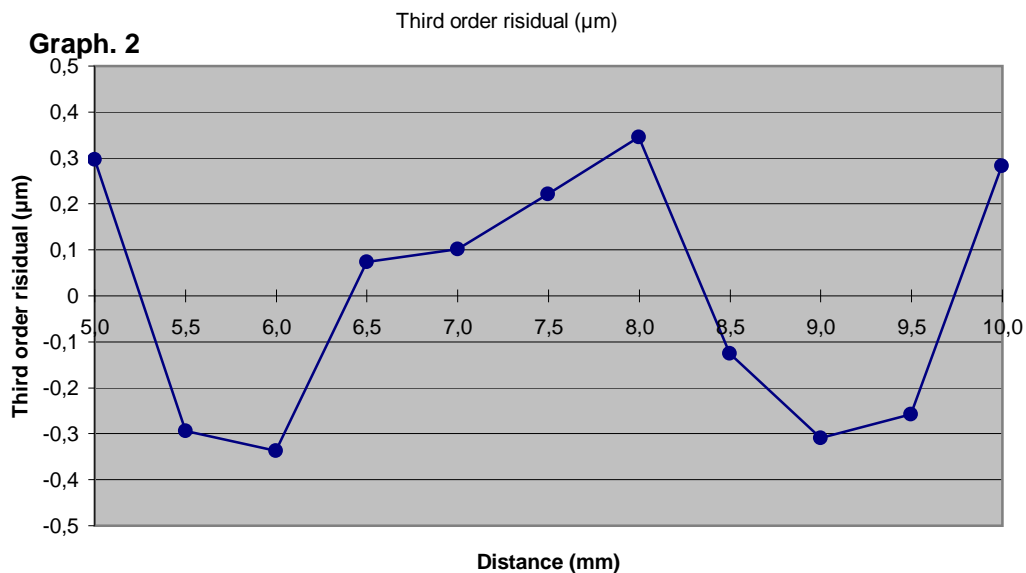
$$d = 5,0057 + 0,49819 V$$



Third order linearization

Third order regression coefficients

$$d = 4,9995 + 0,50728 V - 0,002283 V^2 + 0,0001480 V^3$$



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

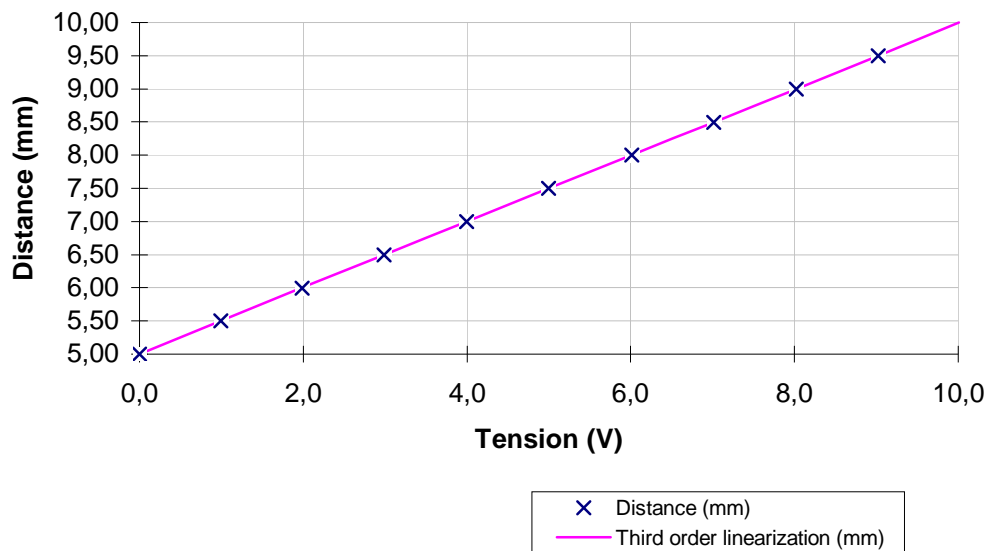
- Distance is in mm

- Voltage is in V

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Sensor linearization



Résults

Distance (mm)	Voltage (V)
4,9992	-0,0011
5,4990	0,9894
5,9990	1,9865
6,4975	2,9853
6,9981	3,9929
7,4973	4,9996
7,9982	6,0100
8,4971	7,0160
8,9981	8,0222
9,4973	9,0192
9,9980	10,0115