

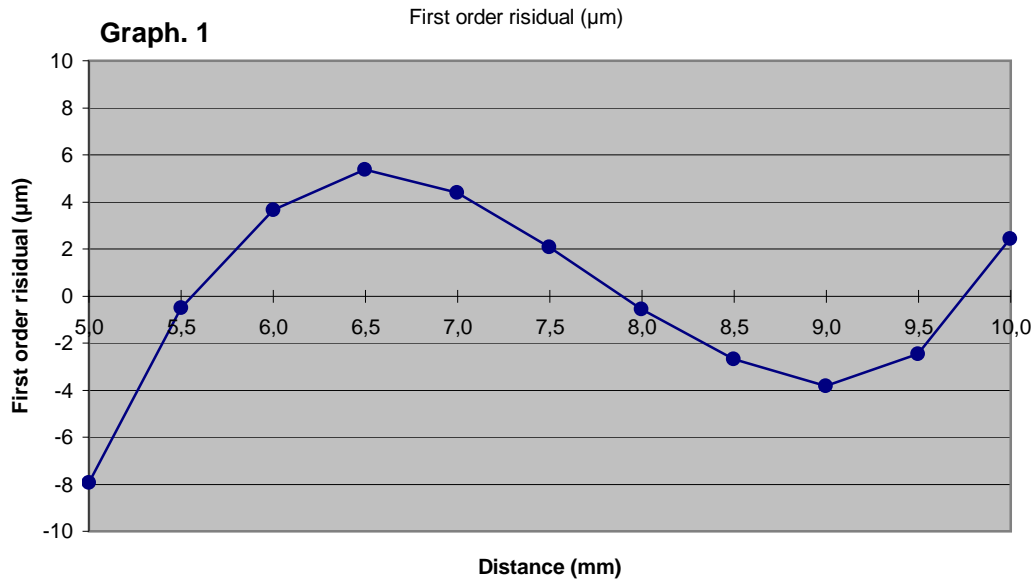
H7DC-049

Date : 19/12/2012

First order linearization

First order regression coefficients

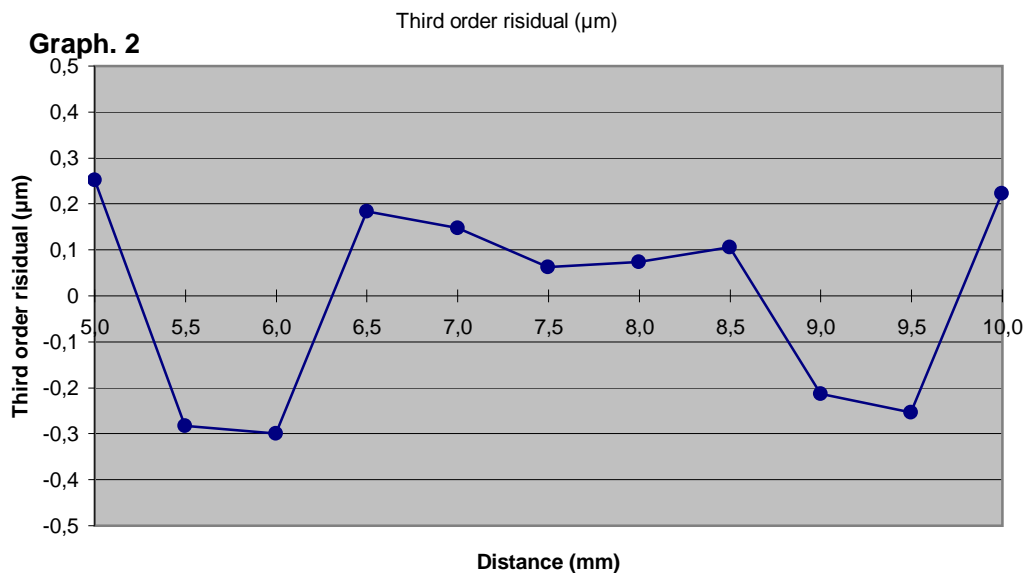
$$d = 5,0081 + 0,49872 V$$



Third order linearization

Third order regression coefficients

$$d = 4,9999 + 0,50896 V - 0,002365 V^2 + 0,0001445 V^3$$



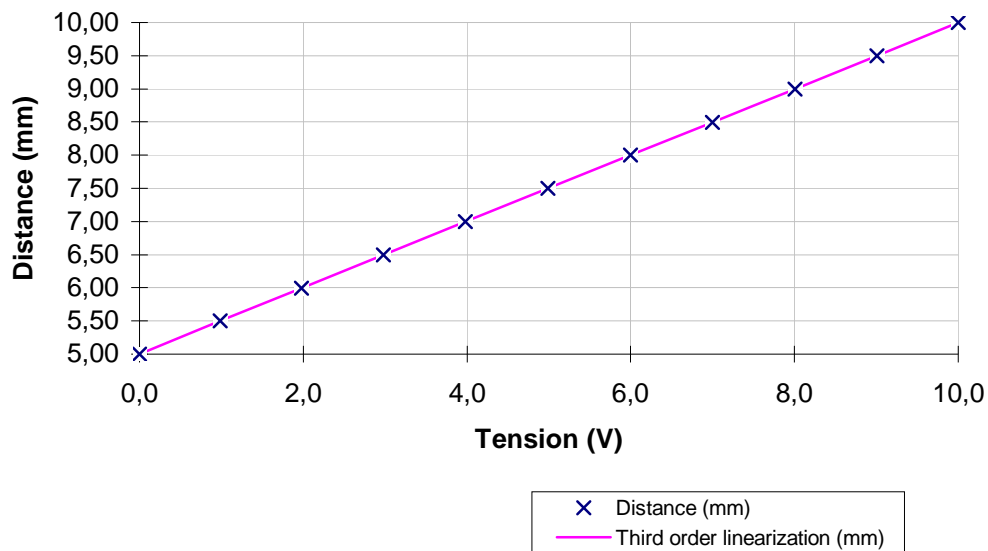
Legend : Linearization polynoms express distance d as a fonction of voltage V

- Distance is in mm
- Voltage is in V

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Sensor linearization



Résultats

Distance (mm)	Voltage (V)
4,9991	-0,0021
5,4989	0,9852
5,9986	1,9788
6,4972	2,9751
6,9977	3,9806
7,4969	4,9862
7,9977	5,9957
8,4967	7,0006
8,9977	8,0074
9,4971	9,0060
9,9976	9,9998