

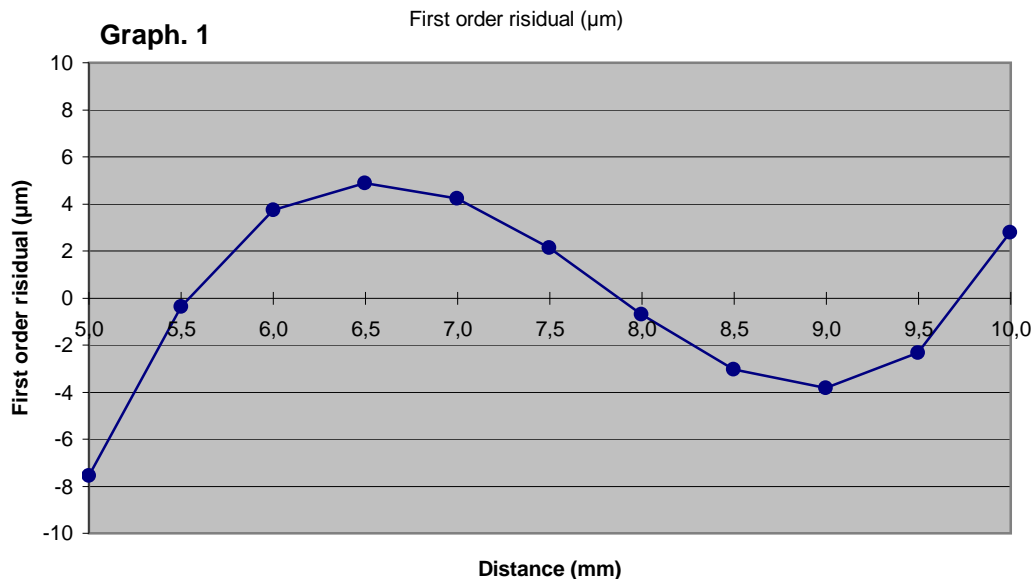
H7DC-050

Date : 19/12/2012

First order linearization

First order regression coefficients

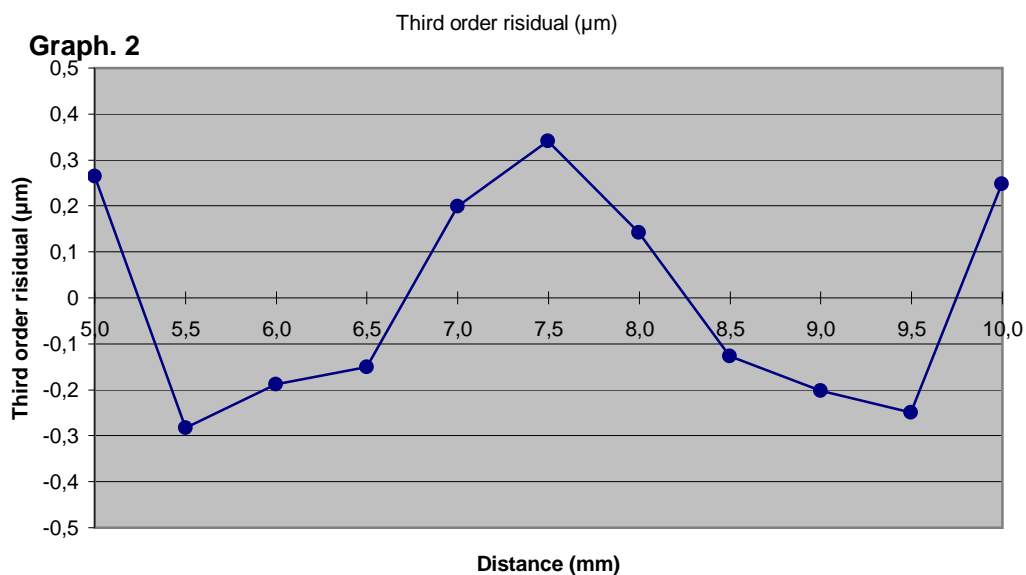
$$d = 5,0073 + 0,49877 V$$



Third order linearization

Third order regression coefficients

$$d = 4,9995 + 0,50876 V - 0,002334 V^2 + 0,0001439 V^3$$



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

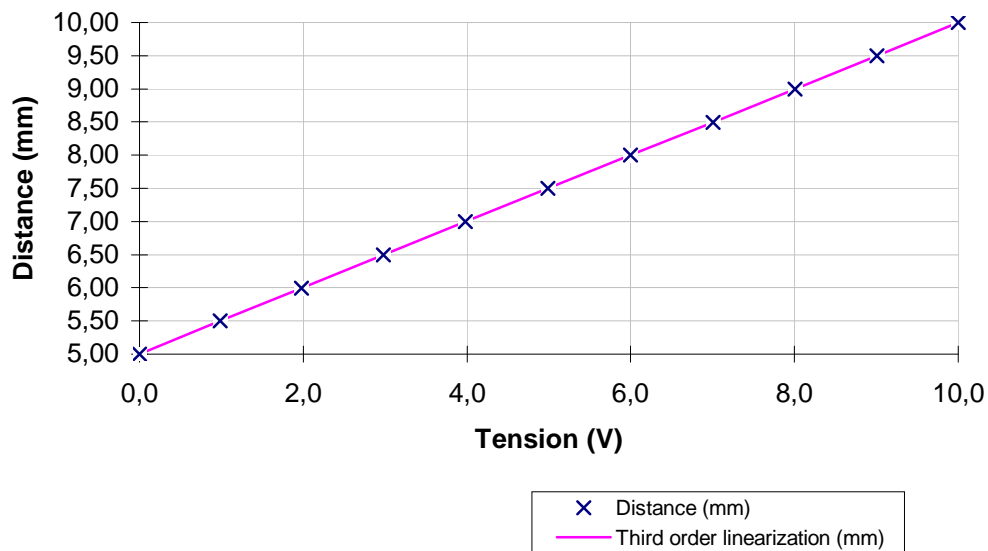
- Distance is in mm

- Voltage is in V

H7DC-050

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Sensor linearization



Résultats

Distance (mm)	Voltage (V)
4,9991	-0,0012
5,4990	0,9866
5,9988	1,9805
6,4973	2,9776
6,9979	3,9826
7,4972	4,9879
7,9980	5,9976
8,4970	7,0028
8,9979	8,0087
9,4973	9,0069
9,9978	10,0001