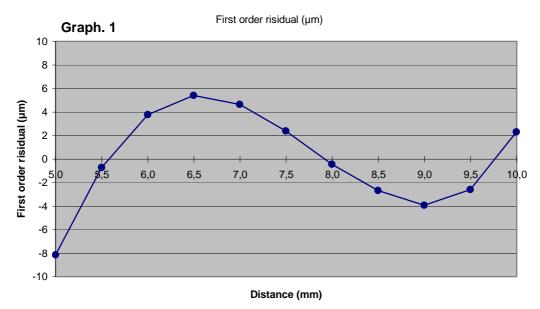
## H7DC-034

Date: 19/12/2012

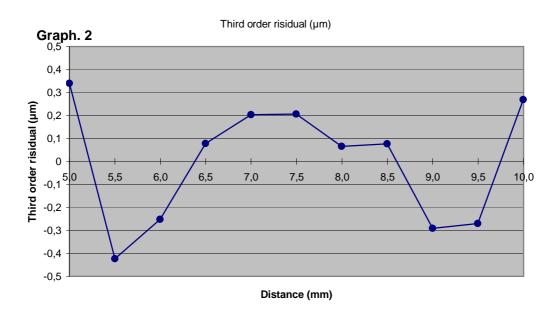
#### First order linearization

First order regression coefficients  $d = 5,0078 + 0,49949 \ V$ 



#### Third order linearization

Third order regression coefficients  $d=4,9994+0,51002\ V\text{ - }0,002416\ V^2+0,0001469\ V^3$ 



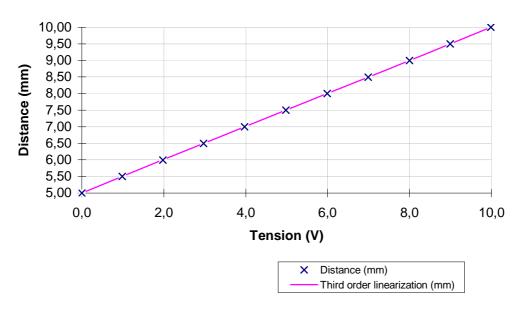
<u>Legend</u>: Linearization polynoms express distance d as a fonction of voltage V

- Distance is in mm
- Voltage is in V

# H7DC-034

Date: 19/12/2012

### **Sensor linearization**



Résults

Distance (mm)	Voltage (V)
4,9993	-0,0008
5,4990	0,9848
5,9990	1,9768
6,4975	2,9716
6,9981	3,9753
7,4973	4,9792
7,9981	5,9876
8,4972	6,9912
8,9980	7,9964
9,4973	8,9933
9,9980	9,9859