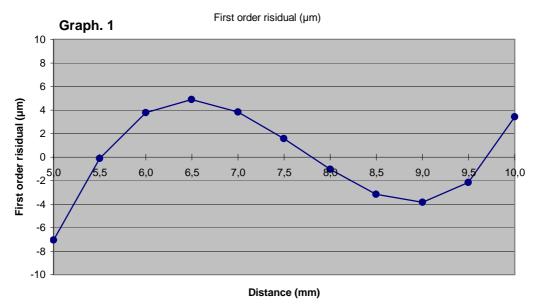
## H7DC-061

Date: 19/12/2012

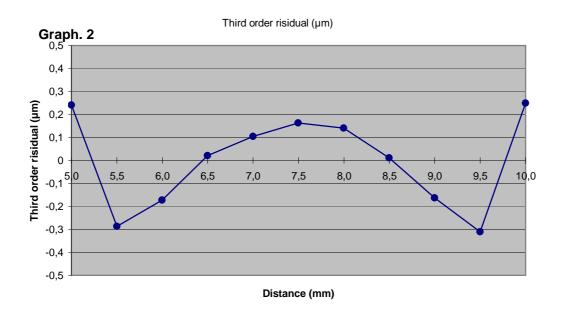
#### First order linearization

First order regression coefficients d = 5,0073 + 0,49883 V



### Third order linearization

Third order regression coefficients  $d = 5,0001 + 0,50852 \; V - 0,002317 \; V^2 + 0,0001453 \; V^3$ 



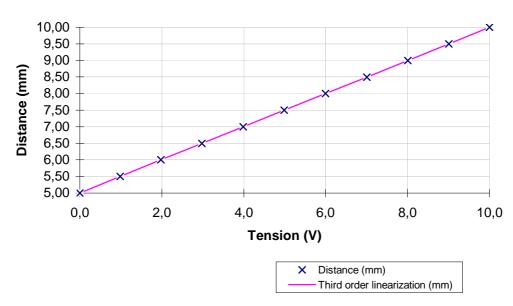
<u>Legend</u>: Linearization polynoms express distance d as a fonction of voltage V

- Distance is in mm
- Voltage is in V

# H7DC-061

Date: 19/12/2012

### **Sensor linearization**



### Résults

Distance (mm)	Voltage (V)
4,9995	-0,0016
5,4994	0,9867
5,9994	1,9812
6,4978	2,9782
6,9985	3,9840
7,4976	4,9891
7,9986	5,9987
8,4975	7,0031
8,9985	8,0088
9,4977	9,0061
9,9984	9,9987