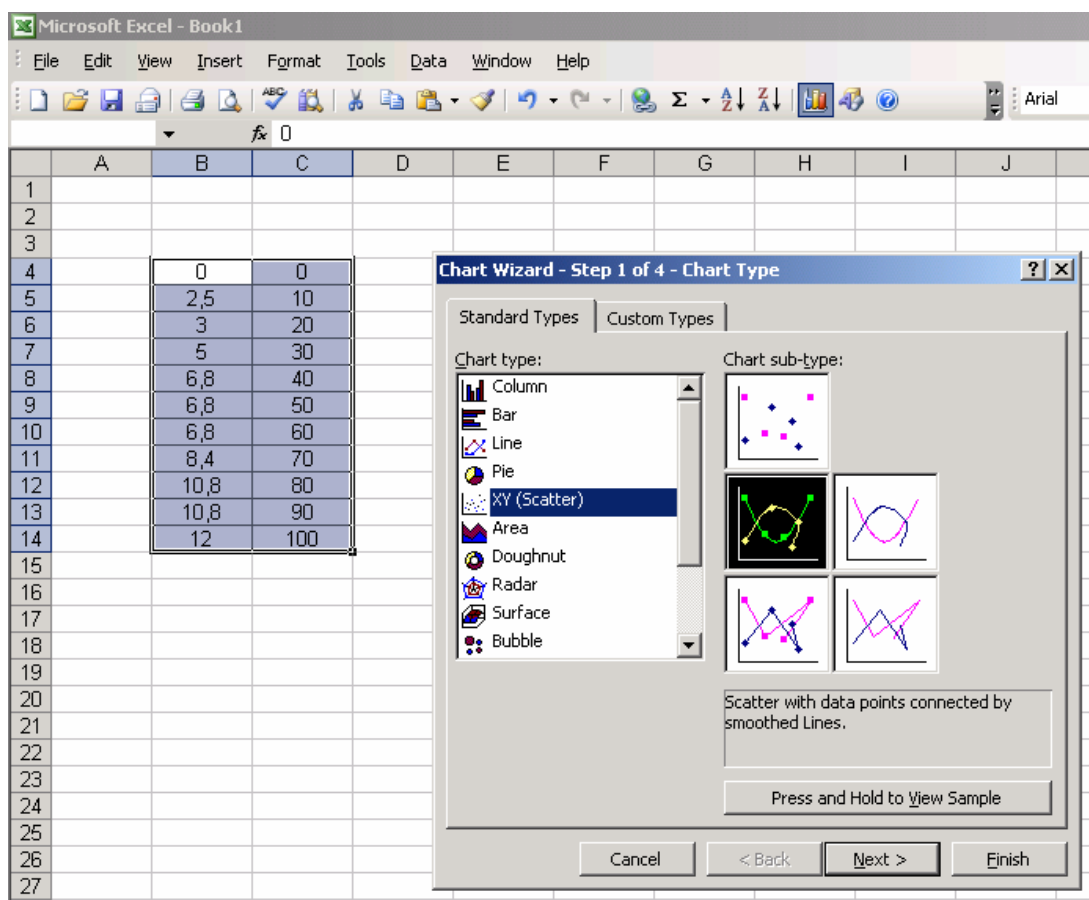


TAVL + fuel tank v1.1

All vehicles have factory installed fuel sensor which has certain voltage level depending on fuel amount in the tank. FM4100 is able to read this information and TAVL server can convert it to liters or percentage using polynomial calculation and display it in client application.

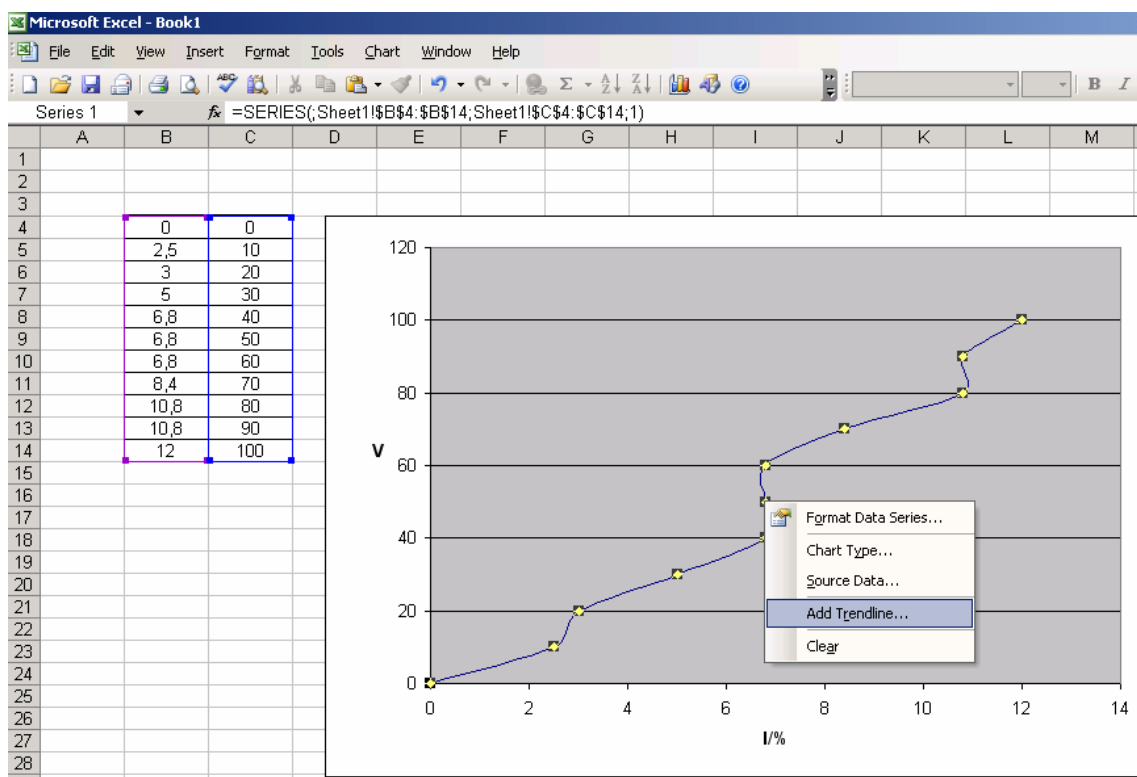
Every time FM4100 is connected to the sensor you have to make a table of voltage dependency on fuel level. 10% resolution is recommended for better detail. In first column must be a voltage (V) second a fuel tank value (I/%). As an example we will make one sample table:

V	I / %
0	0
2,5	10
3	20
5	30
6,8	40
6,8	50
6,8	60
8,4	70
10,8	80
10,8	90
12	100

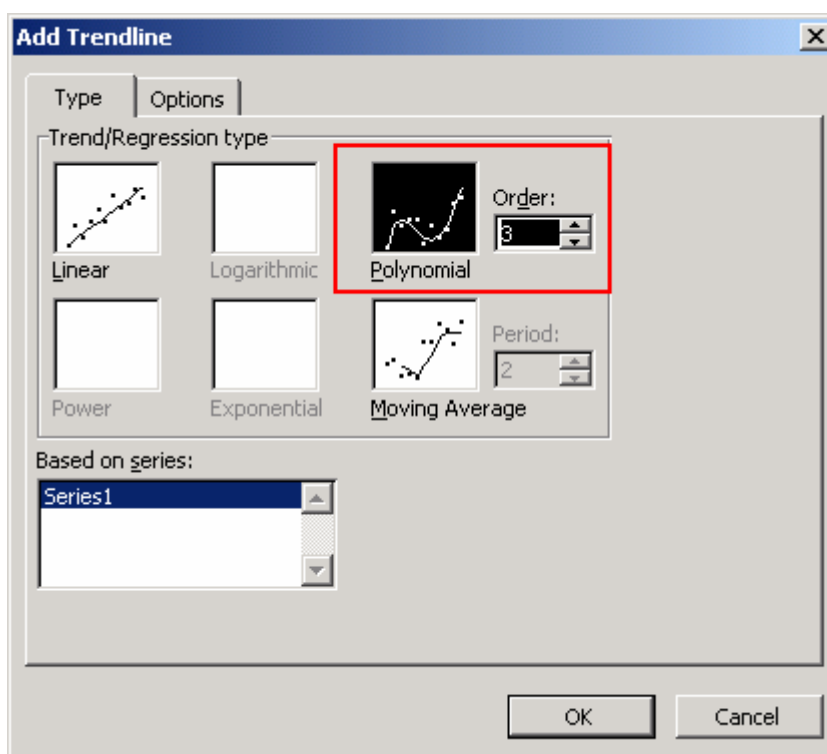


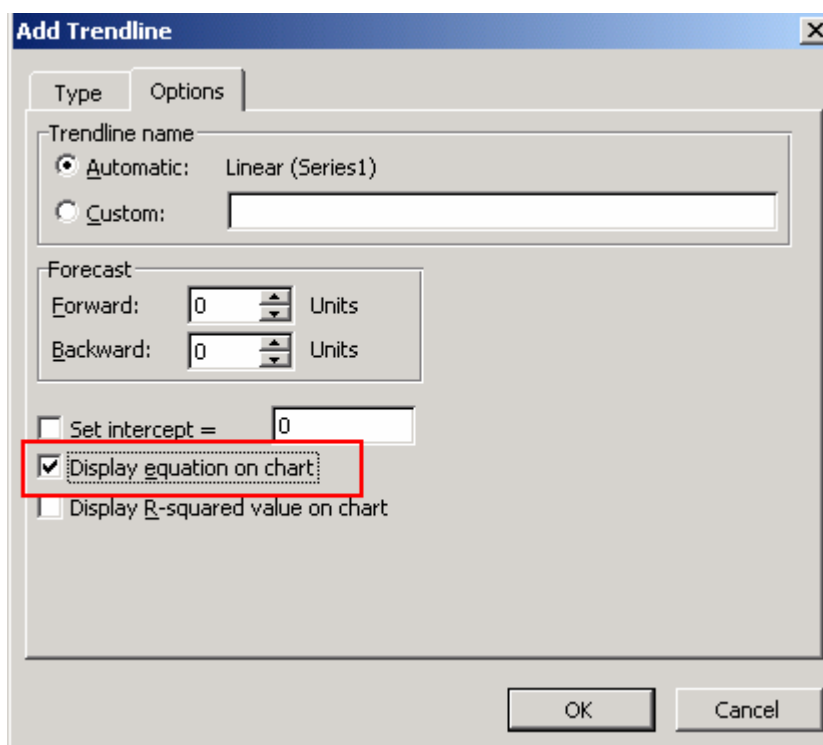
Enter this table in MS Excel and make a chart:

Right-click on the chart and select 'Add Trendline':

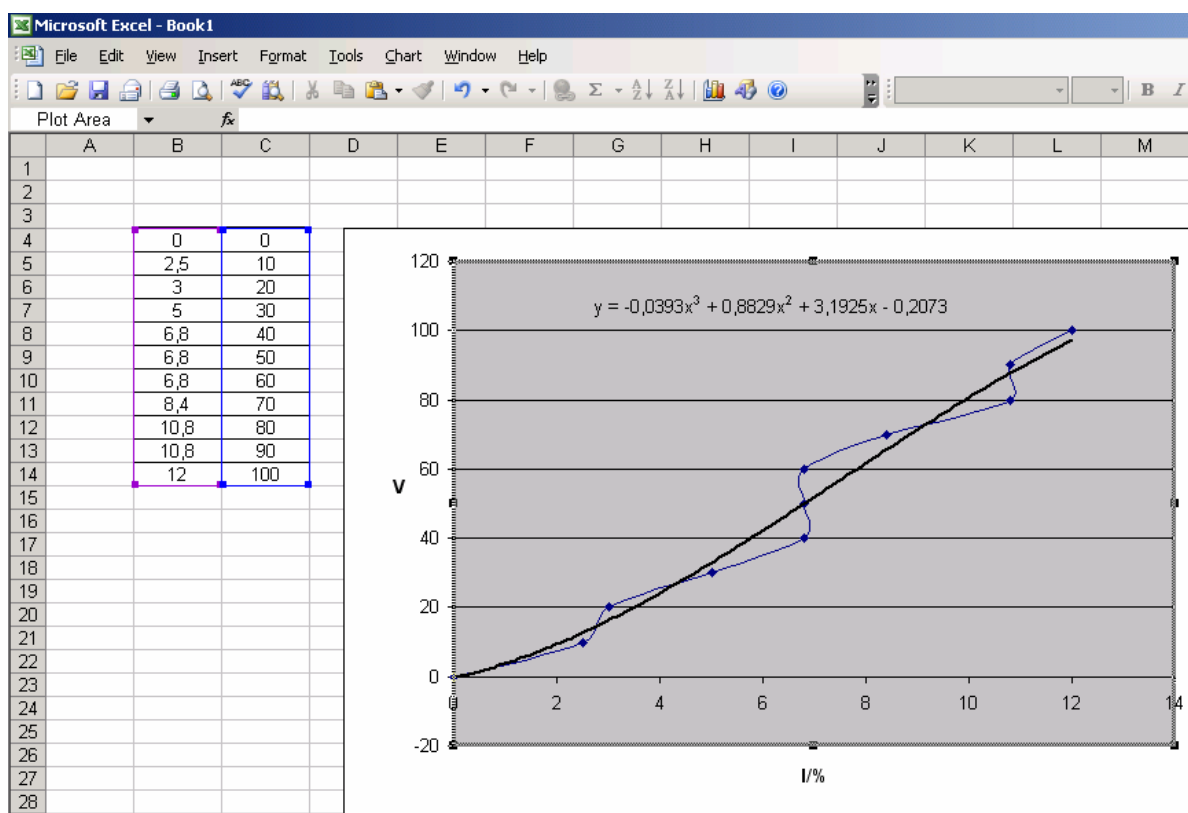


Select a polynomial type, 3rd order trendline. Click 'Options' and select 'Display Equation On Chart' checkbox.

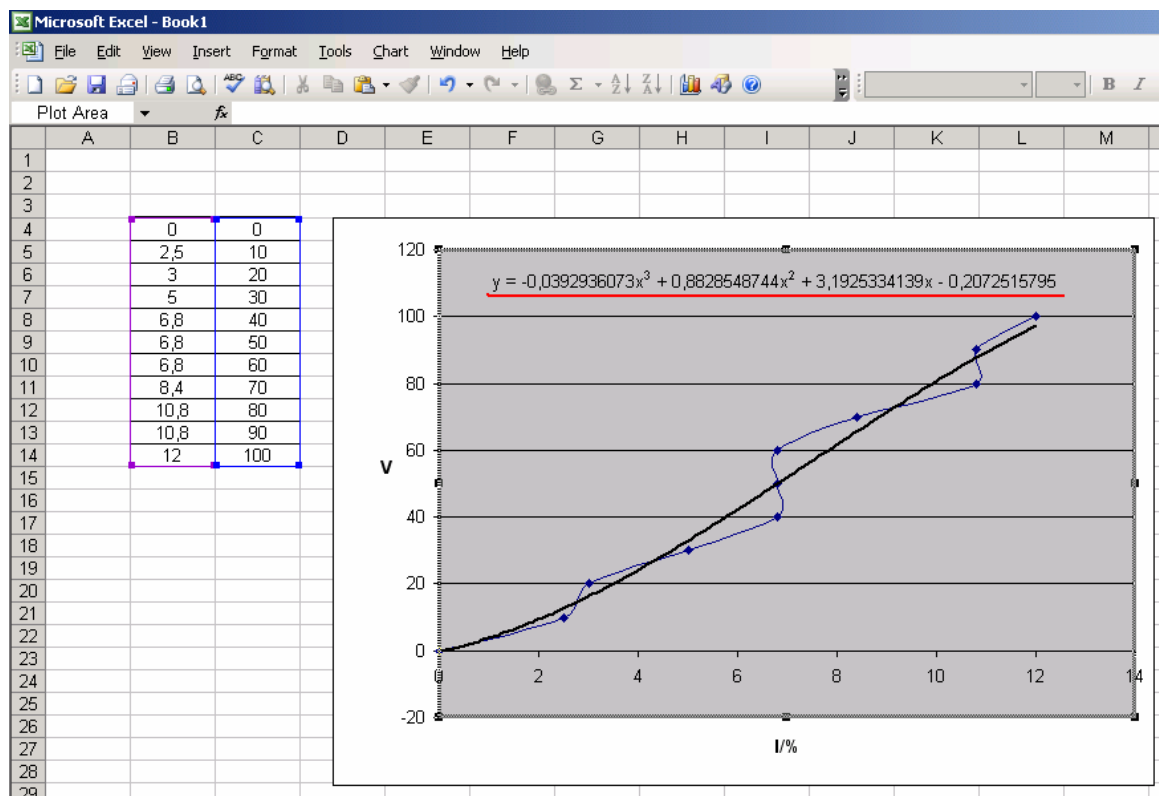
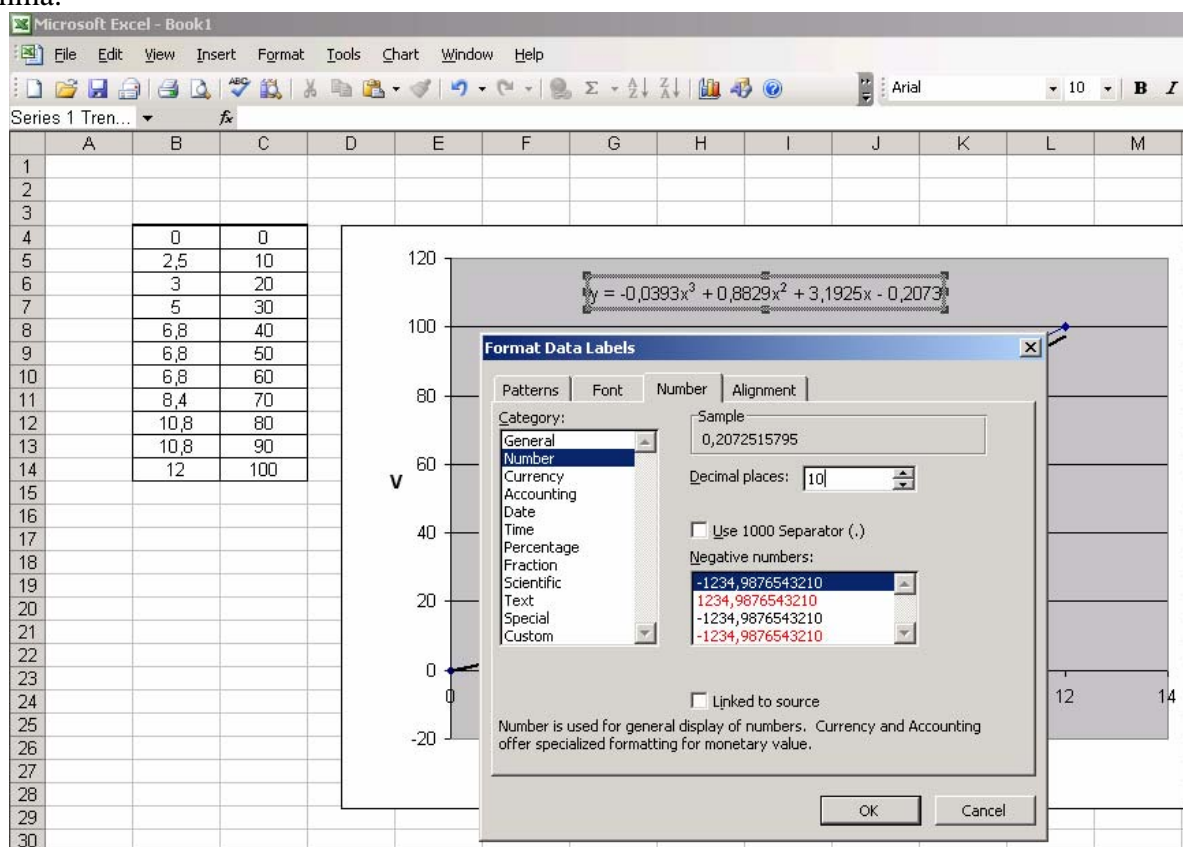




A new line will appear as well as a formula for that line calculation:



Select the formula and edit it to display number in more suitable format: 10 digits after comma:



Final view of the formula should be:

$$y = -0,0392936073x^3 + 0,8828548744x^2 + 3,1925334139x - 0,2072515795$$

Where

$$a0 = -0,2072515795$$

$$a1 = 3,1925334139$$

$$a2 = 0,8828548744$$

$$a3 = -0,0392936073$$

Enter these number in appropriate fields in TAVL Management and values displayed in application will be shown in liters or percentage.

In LLS case we have the same calibration steps, voltage values change to kvants (N).