

Axis configuration (Graphs)

"Axis configuration" dialog box

A dialog window is intended for a configuration of axes in a graph. A number placed in the header represents the axis sequential number.

Axis Configuration (1)

Nr: 1

Axis configuration

Basic parameters:

☐ Analog axis

☒ Digital axis

Level height: 100

Axis color: Blue

Digital axis:

Number of levels: 4

☒ Level's color: Cyan

☒ Fill color: Yellow

☒ Show only for used levels

For disabled axis show: All levels

Axis description:

Os 1

Font: *Default

Color: Black

Placement: ☐ Near axes ☐ Center ☒ Distant

OK Cancel

Number

Axis serial number is automatically generated during the axis creation. The number is one figure greater than the sequential number of the last axis. You can define up to 99 axes.

Axis type

Axis may be [analog](#) or [digital](#) one according to the type of displayed values. Analog axis is used for objects of numeric types (integer and real/analog) and digital axis is used for objects of Boolean type. Digital axis is also used for a graphic flow of **Strip graph** type.

Analog axis

The following input fields appear in the dialog box after selecting the radio button **Analog axis**:

Analog axis:

Minimum: 0

Maximum: 100

Dynamic axis: Fully dynamic

☒ Real axis

☐ Integer axis

The parameters **Minimum** and **Maximum** allows to define limits for the analog axis. If minimum is higher than maximum, axis will be drawn upside down. The graphic flows are drawn upside down, too. A special axis description is supported - with defined range of 360, the limits start from -360, -180, 0, 180, 360.

Dynamic axis

Analog axis may be dynamic one – **Dynamic axis** item. The range of dynamic axis (minimal and maximal limits) in the displayed graph is automatically modified according to range changes of the displayed object values. The possible types of dynamic axis:

- *Static*- inactive dynamic axis
- *Fully dynamic* - fully dynamic axis with no limits
- *Dynamic minimum* - axis with dynamic minimum and static maximum
- *Dynamic maximum* - axis with dynamic maximum and static minimum
- *Dynamic with min. range* - dynamic axis with defined minimal range
- *Dynamic symmetric min/max* - dynamic axis with bounds symmetric around zero
- *Dynamic with min difference* - dynamic axis with minimum distance of maximal and minimal limit given by difference between maximum and minimum in configuration of the axis.

Digital axis

The following controls appear in the dialog box after selecting the radio button **Digital axis**:

Digital axis:

Number of levels:

☒ Level's color:

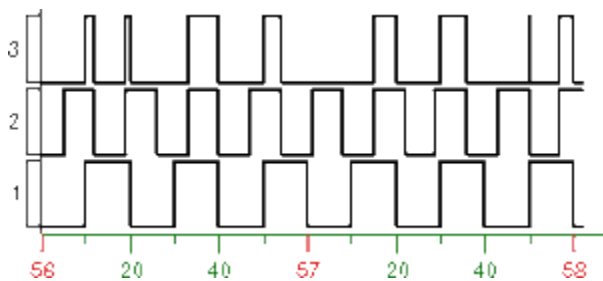
☒ Fill color:

☐ Show used levels only

For disabled axis show: All levels ▼

Number of levels

The parameter allows to define a number of levels for the digital axis. Digital axis can contain up to 50 levels. Division of digital axis into particular levels is useful if the graph will display more objects of Boolean type. If different level of digital axis is assigned to each of these object then the object values will be drawn into corresponding levels and not into the same space. The situation is shown in the following figure.



Level's color

Color of levels' boundaries. Color is defined by selecting from the [color palette](#) opened by clicking the button placed right from the sample of currently selected color.

Fill color

Color of levels' fill. Color is defined by selecting from the [color palette](#) opened by clicking the button placed right from the sample of currently selected color.

Show for used levels only

If the parameter is checked, levels and fills in the graph will be depicted only for those levels that contain a graphic flow.

For disabled axis show:

The parameter specifies the behaviour if the digital axis is not enabled in the graph. Possible values:

- *No level*
- *Used levels*
- *All levels*

Level height

Level height defines a level height ratio to height of other levels. User sets aliquot coefficient for drawing area division for levels according to axis so that the demands of displayed axes are counted and level height is divided by sum. A gained result relating to one part is multiplied by its demand for displayed area.

This parameter is valid for axial levels, not for object levels.

Axis color

Axis color is chosen from the color palette opened after clicking on the arrow button placed beside **Axis color** item.

Axis description

Name of the Y-axis (vertical). It is displayed in the graph area. Possibility to use the [Dictionary](#) (to open press **CTRL+L**).

Font

Text font of defined axis description. Clicking the button  cancels the currently selected font and sets the default one.

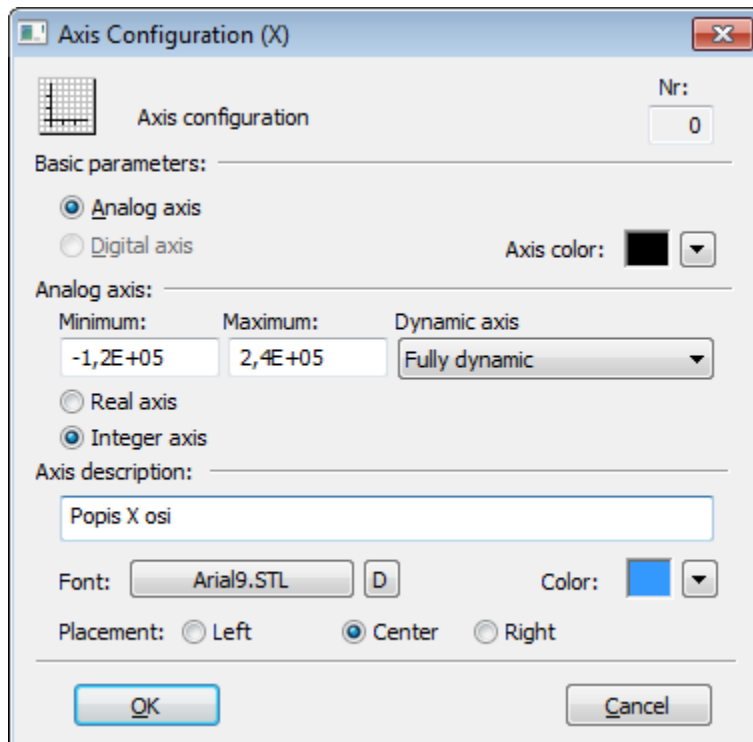
Color

Color of the axis description. Color is defined by selecting from the [color palette](#) opened by clicking the button placed right from the sample of currently selected color.

Placement

Position of the axis description. The options for selection for:

- **Y axis:** *Near axis, Center, Distant.*
If text overlaps, only text for left axis is displayed.
If axis placed on the left and on the right side is identical, only description for left axis is displayed.
- **X axis:** *Near axis, Center, Right*



The image shows a screenshot of the 'Axis Configuration (X)' dialog box. It has a title bar with a standard Windows icon and a close button. Inside, there's a small grid icon and the text 'Axis configuration'. To the right, there's a 'Nr:' label and a text box containing '0'. Below this is a section for 'Basic parameters' with two radio buttons: 'Analog axis' (selected) and 'Digital axis'. To the right of these is an 'Axis color:' label, a black color swatch, and a dropdown arrow. Under 'Analog axis', there are three sub-sections: 'Minimum:' with a text box containing '-1,2E+05', 'Maximum:' with a text box containing '2,4E+05', and 'Dynamic axis' with a dropdown menu showing 'Fully dynamic'. Below these are two more radio buttons: 'Real axis' and 'Integer axis' (selected). The 'Axis description:' section has a text box containing 'Popis X osi'. Below that are 'Font:' and 'Color:' labels. The 'Font:' label has a text box with 'Arial9.STL', a 'D' button, and a dropdown arrow. The 'Color:' label has a blue color swatch and a dropdown arrow. At the bottom, there's a 'Placement:' section with three radio buttons: 'Left', 'Center' (selected), and 'Right'. At the very bottom are 'OK' and 'Cancel' buttons.



Related pages:

[Configuration of graphs - Axes](#)