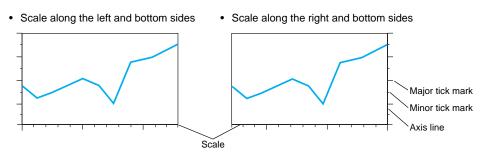
8.2 Scale Display

Overview

Scale

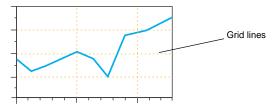
A graph can be provided with a scale along any sides: right, left, top, or bottom.



Grid lines

Grid lines can be drawn in accordance with tick marks.

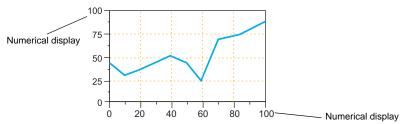
Example: Grid lines at major tick marks



Numerical Display

Reference numbers can be displayed at tick marks.

Example: Reference numbers at major tick marks



Applicable Items

- Trend graph
- Trend sampling

Setting Items

In the item dialog, open the [Scale] tab window, and check [🖂 Set scale display].

1234 12345678 Zoom Zoom Unt.	
12345678 12345678 Graph 3 1 12345678 Return 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Click or double-click.	
Trend Sampling 🛛 🛛	Example: Trend sampling
Main Reference Line Style Scale Jetail Coordinates	
✓ Set scale display	
👎 Color 🔻 🔛 Back Color 🔻 Length of small scale 🛛 😜	
Left Right Bottom Top	
. Scale	
Small scale alignment Equal divide No. of divisions 5	
Make small scales larger every 5 📚 scales.	
Grid Line	
Display only large scale	Style 🔀
	Digits 5 🗢 Decimal Point 0 📚
V Num. Display	Color •
Style	Property B 1/4 Z
Display only large scale	Flush Left O Center O Flush Right
Range Setting	Enlar X 1 🗘 Y 1 💭 Point 12
Match with the specified graph No. □	Windows Font
Set values	Font Courier New
Data Length 💿 1-Word 🔷 2-Word	Setting Cancel
Input Type DEC-/BCD FLOAT	
<u>0</u> - <u>100</u>	

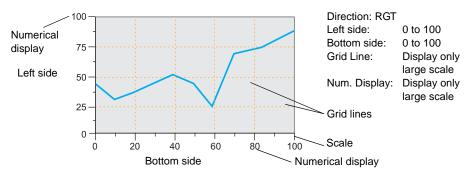
Color, Back Color	Select the color of the major and minor tick marks, and axis lines of the scale. Each setting is common to all left, right, bottom, and top sides.			
Length of small scale	Set the length of the minor tick marks of the scale. This setting is common to all left, right, bottom, and top sides. 1 - 16 The thickness of the marks is fixed.			
[□ Scale] in [Left], [Right], [Bottom], and [Top] tab windows	Check these boxes as necessary for the sides of the graph when showing a scale, grid lines, or reference numbers. Default: [🗆 Left] and [🖓 Bottom] checked			
Small scale alignment	 [Equal divide] (based on [No. of divisions]) Minor tick marks are equally spaced according to the specified number of divisions along the axis line. [Equal interval] (based on [No. of intervals]) Minor tick marks are equally spaced according to the specified interval from the zero point along the axis line within the following range. 			
	Direction	Side	Range	
	LFT/RGT Top	/Bottom	[X Axis Data Points] or [Range	
	UP/DW Le	ft/Right	Setting] in the [Scale] tab window	
	LFT/RGT Le	eft/Right [Range Setting] in the [Scale] tab		
	UP/DW Top	/Bottom	window	
☐ Make small scales larger every n scales.	Check this box when placing major tick marks. The major tick mark is twice the length of the minor. The thickness of the markings is fixed.			
□Grid Line		Check this box when drawing grid lines. Grid lines are drawn at the major and minor tick marks of the scale.		
	Color, Line Type	Set the	color or the line type of the grid lines.	
	Display only large scale		Check this box when drawing grid lines only at the major tick marks of the scale. Uncheck this box to draw grid lines at both minor and major tick marks.	
□Num. Display Check this box when showing reference tick marks of the scale.			erence numbers at the major and minor	
	Style		Set the number of digits or the color of reference numbers shown at tick marks.	
	Display only large scale	number scale. Unchec	Check this box when showing reference numbers only at the major tick marks of the scale. Uncheck this box to show reference numbers at both minor and major tick marks.	

Range Setting	a	alignment: Eq checked.		d, provided that [Small scale set or [⊠ Num. Display] is ʰ]
		Direction	Side	Range
		LFT/RGT	Top/Bottom	[X Axis Data Points] ^{*1}
		UP/DW	Left/Right	
		LFT/RGT	Left/Right	[Graph Min. Value] and [Graph Max. Value] specified for the
		UP/DW	Top/Bottom	selected graph number ^{*2}
		Set values] Specify the mir nemory addre		imum values using constants or

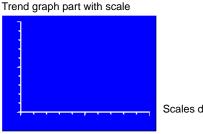
- *1 If [\boxtimes X Scale] is checked in trend graph settings, the range is determined by the minimum and maximum values of the X scale.
- *2 If the minimum and maximum values are specified with memory addresses (other than constants) in the [Range Setting] area and if these values are changed during RUN, an update resulting from the change occurs at the following times:
 - The screen including a trend graph or trend sampling is redrawn.
 - In the case of a trend graph, the bit for redraw or redraw after clear in the control memory is set (ON).
 - In the case of trend sampling, the macro command TREND_REFRESH is executed.

Setting Procedure

As an example, this section describes how to set a scale with reference numbers and grid lines for a trend graph.



- 1. Place a trend graph part without scale (*) on the screen.
 - * If scale settings are made for a graph part with scale, scales will overlap one another. Be sure to select a part without scale.

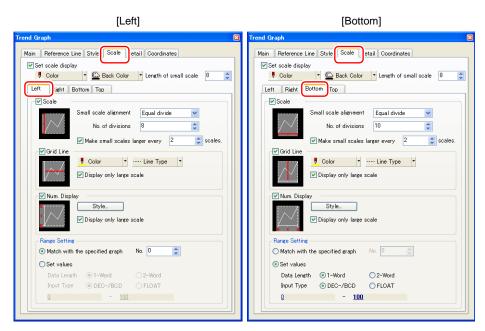


Scales doubly displayed

 Click or double-click the trend graph part to open its item dialog. Make settings as necessary in the [Main] tab window. For more information on settings, refer to the V8 Series Reference Manual.

	Trend Graph 🛛 🔀			
	Main Reference Line Style Scale Detail Coordinates			
	Control Memory			
. / .	Internal 🖌 \$u00100 🛟 📰			
	X Axis Data Points 100 📚			
	Graph Setting			
	ZNo.0 Edit			
	□No.1 □No.2			
Trend graph part without scale	□No.3			
	□No.4			
	No.5 Set Selected			
	Direction RGT 💌			
	XY Parameters			
	X Scale			

3. Click the [Scale] tab. Set the [Left] and [Bottom] tab windows as follows.



4. The necessary settings have been completed.

Limitations

Trend Graph

• For asynchronous display of multiple trend graphs, the scale of the parent trend graph is displayed. Scale settings made for child trend graphs are invalid.

Trend Graph and Trend Sampling

• If a tile pattern is selected for [Color] in the [Style] tab window in the above dialog, other color settings, such as for [Grid Line], are invalid. Do not select tile patterns.