SparklineChart Control Reference

Show a small inline trend for KPI tiles and asset cards.

Reference **Controls** **Charts** SparklineChart

Available from FrameworX 10.1.6.

The SparklineChart is a small trend with no axes, no labels and no legend, legible down to 80 × 20 pixels. Place it next to a KPI value or on an asset card to show the recent direction of a value. It draws as a line, an area, columns or win/loss bars.

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Requirements

This component is Portable. It runs both on Windows and on Web Pages hosted on any platform.

Clients: works in the Rich Client and in the web client (HTML5), with the same values and layout on both. Verified on FrameworX 10.1.6.

Configuration

1. Go to **Displays / Draw**.
2. In the Components Panel, select **Charts**, then choose **SparklineChart**.
3. Click or drag-and-drop the component into the drawing area.
4. Double-click the object to open the configuration window.

Data Binding

- **Live mode** (default): bind **LinkedValue** to a number, a tag or an expression. The chart keeps the newest **BufferSize** samples (2 to 500), one per value change. The buffer is empty when the runtime starts; a value equal to the last sample, or non-numeric, is not added.
- **Table mode**: set **UseDataTable** to true and point **DataSourceLink** to a Dataset query or table (`@Dataset.Query.Name` / `@Dataset.Table.Name`) or a tag that holds a DataTable (`@Tag.Name`). The chart draws the **ValueColumn** in row order (the last BufferSize numeric rows).

Behavior

- **SparklineType**: Line (default), Area, Column or WinLoss. Bar is accepted for Column.
- **AutoScale** (default) scales to the minimum and maximum of the drawn points (Column also includes 0). With AutoScale set to false, the fixed MinValue to MaxValue range is used and values outside it are drawn at the edge.
- Markers: **ShowLastMarker** (default) marks the newest point; **ShowMinMarker** and **ShowMaxMarker** mark the lowest and highest points. Column and WinLoss recolor the bar instead of drawing a dot.
- WinLoss: a value above **WinLossThreshold** is an upper bar, below it a lower bar, equal to it no bar.

Properties

Property	Description	Default
LinkedValue	Live mode: the sampled value.	(empty)
BufferSize	Number of points drawn, 2 to 500.	60
UseDataTable	Read the points from a table instead of sampling LinkedValue.	false
DataSourceLink	Table mode: the data source (Dataset query or table, or a DataTable tag).	(empty)
ValueColumn	Table mode: column that holds the values.	Value
SparklineType	Line, Area, Column or WinLoss.	Line
LineStrokeThickness	Thickness of the line.	1.5
AreaFillOpacity	Area style: opacity of the fill under the line, 0 to 1.	0.3
WinLossThreshold	WinLoss style: value that splits win and loss bars.	0
AutoScale	Scale to the drawn points. Set to false to use MinValue and MaxValue.	true

MinValue	Bottom of the fixed scale (AutoScale false).	0
MaxValue	Top of the fixed scale (AutoScale false).	100
ShowMinMarker	Mark the lowest point.	false
ShowMaxMarker	Mark the highest point.	false
ShowLastMarker	Mark the newest point.	true

Colors follow the Display theme by default: each color property has a theme slot. Set an explicit color (#AARRGGBB) only to override the theme. Color properties: **LineStroke** (theme accent), **NegativeFill** (theme red, columns below 0 and loss bars), **MinMarkerFill** (theme red), **MaxMarkerFill** (theme green) and **LastMarkerFill** (theme amber).

Example

Three sparklines on a KPI card:

- Table mode, **SparklineType** Line, with **ShowMinMarker** and **ShowMaxMarker** set to true: the highest point is marked green, the lowest red and the newest amber.
- Table mode, **SparklineType** Column: the newest column is drawn in amber.
- Live mode with a single sample (a value that has not changed since the runtime started): the chart shows one amber dot; the line grows as the value changes.

Runtime Execution

At runtime the SparklineChart adds a point on each value change (live mode) or redraws when the table changes (table mode). The image shows the three sparklines of the example in the Rich Client; the web client draws the same.



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