

QAG Charts

Product Catalog

Advanced Chart Visualizations for Tridium Niagara 4

18 Chart Types | Full Customization | Live & Historical Data

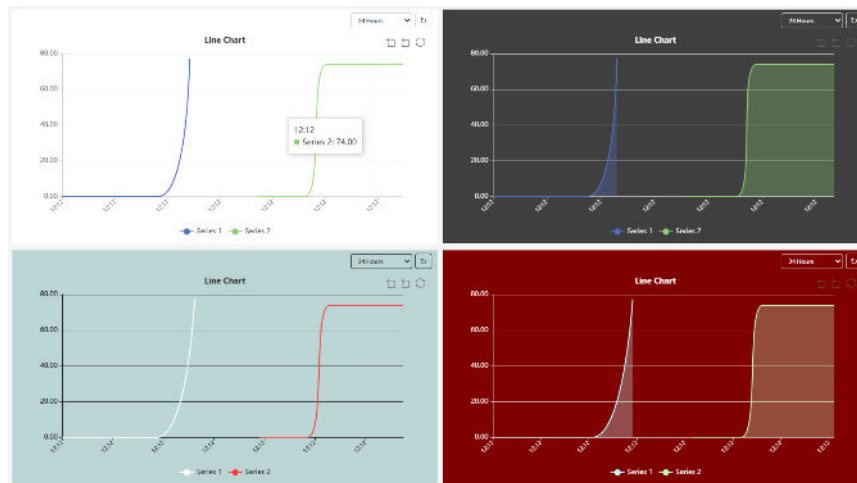
Version 1.0 | February 2026

Product Overview

QAG Charts is a Niagara 4 module delivering 18 professionally designed, fully customizable chart widgets. Each chart binds directly to Niagara control points or history data, providing real-time and historical visualization inside your HTML5 dashboards. All configuration uses standard Niagara properties—no coding required.

Every chart shares a consistent styling API: backgroundColor, textColor, axis colors, grid colors, tooltip colors, and more. This uniformity makes it simple to build cohesive, branded dashboards in both light and dark themes.

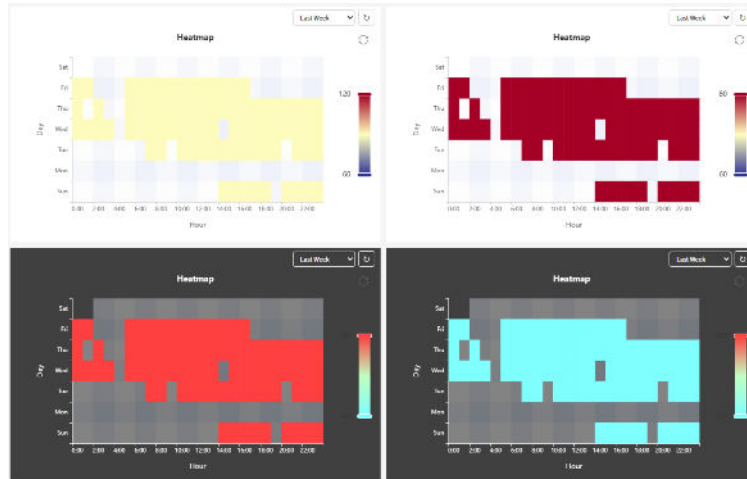
Chart Gallery Preview



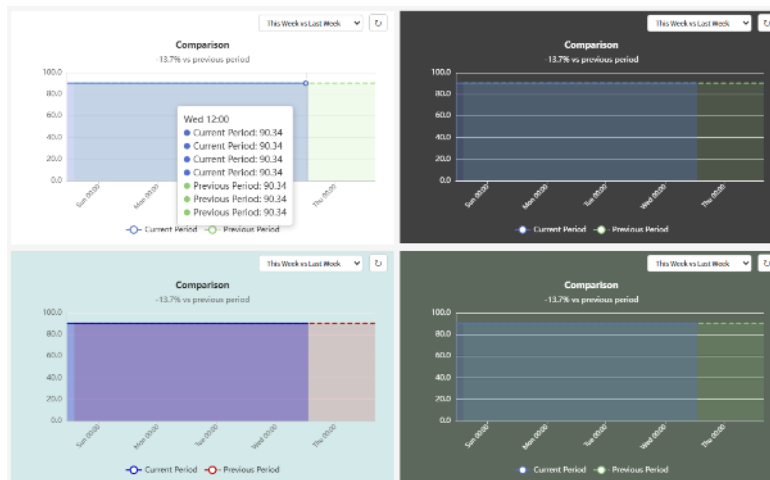
Line Chart — multi-series trends



Gauge — 6 instrument styles



Heatmap — time/day pattern detection



Comparison — period-over-period

Chart Categories

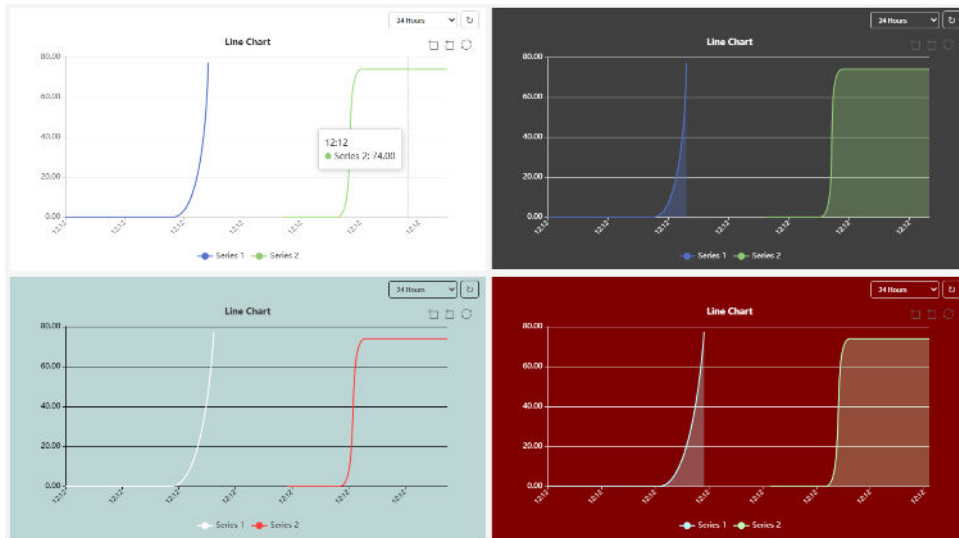
Category	Charts	Use Cases
Trends & Time Series	Line, Sparkline, Comparison, Candlestick, Theme River	Historical trends, period analysis, range monitoring
Category & Proportion	Bar, Pie, Funnel, Treemap	Benchmarking, share analysis, hierarchical breakdowns
Real-Time Status	Gauge, KPI Card, Totals, Liquid Fill	Control rooms, executive headlines, capacity monitoring
Advanced Analytics	Scatter, Heatmap, Radar, Sankey, Boxplot	Correlation, pattern detection, flow analysis, profiling

Complete Chart Reference

Line Chart

TRENDS & TIME SERIES

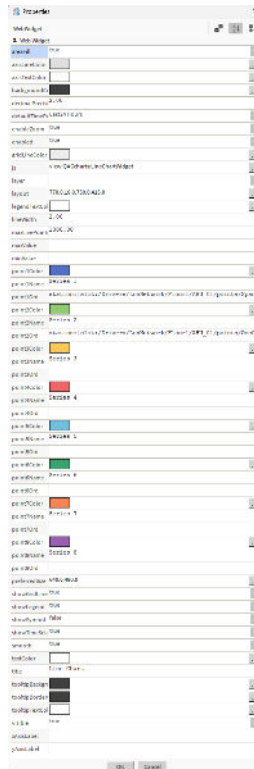
Multi-series trend chart for live and historical data. Up to 8 series with independent colors, area fill, smooth curves, symbol markers, and interactive zoom.



Line Chart — example views with light and dark themes

Best For	Equipment trends, utility demand, baseline vs. actual, anomaly detection.
Binding	Up to 8 series (point1Ord–point8Ord) with per-series names/colors.
Key Properties	areaFill, smooth, showSymbol, enableZoom, lineWidth, showLegend, showTimeSelector, maxLivePoints, minValue, maxV
Value	Ideal go-to trend view for fast anomaly spotting over time.

Properties Panel:

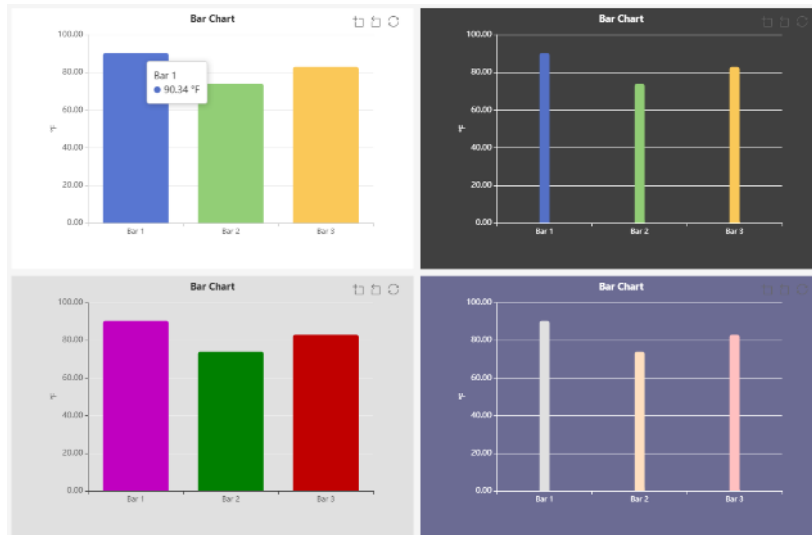


Line Chart — Niagara Workbench properties

Bar Chart

CATEGORY & PROPORTION

Category comparison chart with vertical or horizontal orientation. Up to 8 value slots with per-bar naming and coloring.

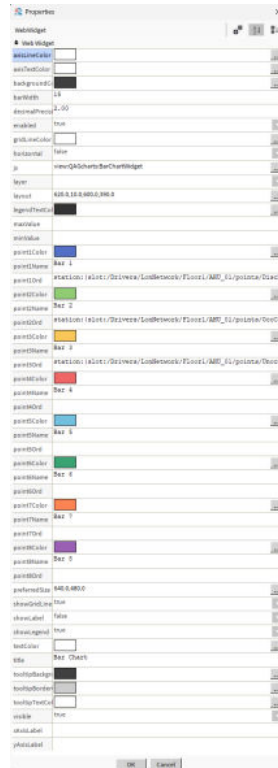


Bar Chart — example views with light and dark themes

Best For	Comparing zones, assets, sites, cost categories. Top/bottom performer dashboards.
Binding	Up to 8 bars with names/colors.

Key Properties	horizontal, showLabel, barWidth, showGridLines, showLegend, minValue, maxValue
Value	Strong for top/bottom performer dashboards and benchmarking.

Properties Panel:

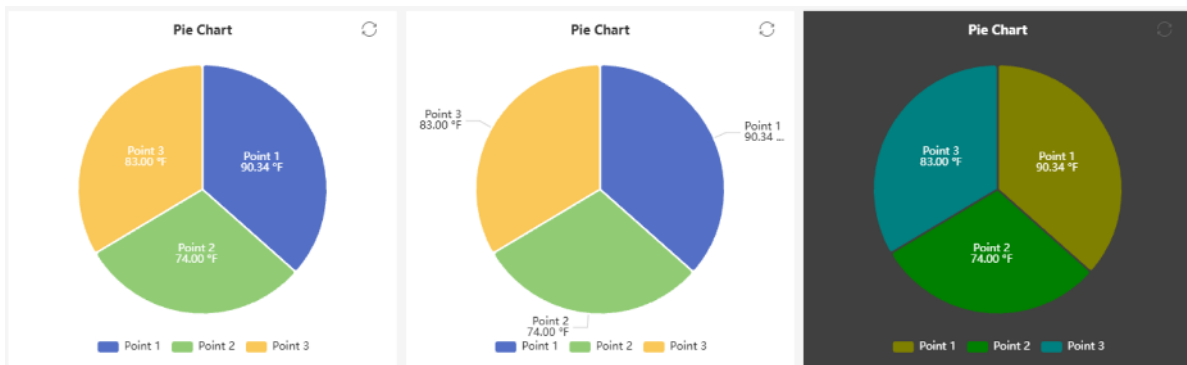


Bar Chart — Niagara Workbench properties

Pie Chart

CATEGORY & PROPORTION

Proportional share chart, optionally donut style. Up to 8 segments with customizable label positions (inside, outside, left, right).



Pie Chart — example views with light and dark themes

Best For	Portfolio split, source contribution, category share, executive summaries.
Binding	Up to 8 segments with names/colors.

Key Properties	donut, showLabel, labelPosition, labelTextColor, showLegend, innerRadius, outerRadius
Value	Clean executive summary chart for part-to-whole storytelling.

Properties Panel:



Pie Chart — Niagara Workbench properties

Gauge

REAL-TIME STATUS

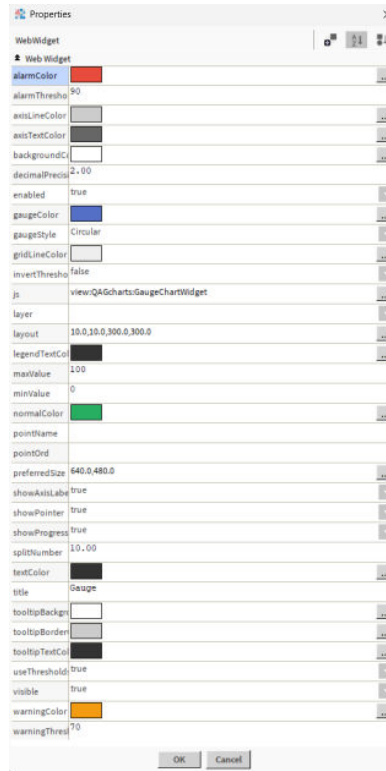
Single-value instrument with 6 styles: Circular, Semicircle, ThreeQuarter, Donut, Linear, Vertical. Color-coded three-zone thresholds.



Gauge — example views with light and dark themes

Best For	Capacity, pressure, comfort index, SLA thresholds, control rooms.
Binding	Single point (pointOrd).
Key Properties	gaugeStyle, minValue, maxValue, showPointer, showProgress, splitNumber, useThresholds, warningThreshold, alarmThreshold
Value	High-visibility KPI control-room component.

Properties Panel:

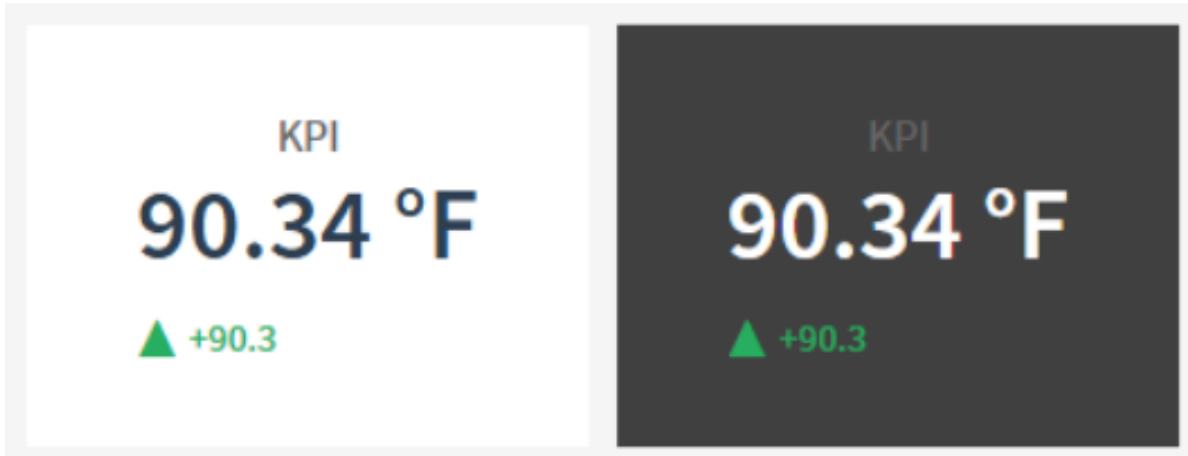


Gauge — Niagara Workbench properties

KPI Card

REAL-TIME STATUS

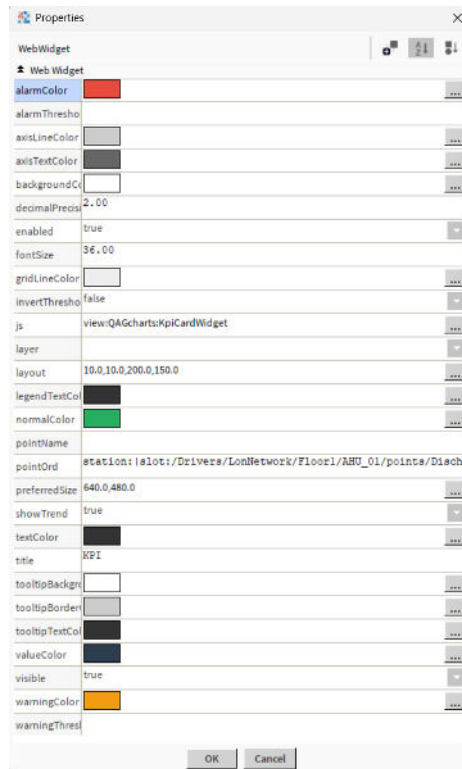
Focused value tile with large display, status coloring, and trend indication arrow showing change from previous value.



KPI Card — example views with light and dark themes

Best For	North-star metrics: kW demand, occupancy %, alarm count.
Binding	Single point (pointOrd).
Key Properties	showTrend, valueColor, fontSize, warningThreshold, alarmThreshold, threshold colors
Value	Best headline metric component for executive and NOC dashboards.

Properties Panel:



KPI Card — Niagara Workbench properties

Totals

REAL-TIME STATUS

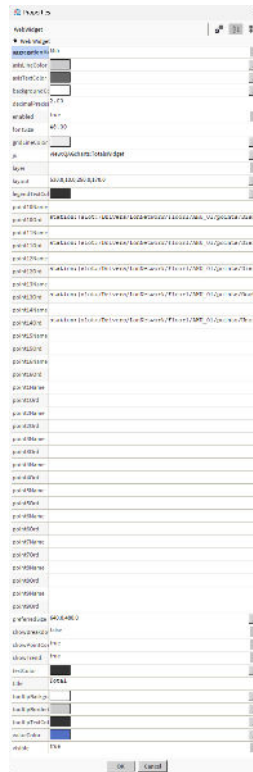
Multi-point aggregate card. Up to 16 inputs. Computes sum, average, min, max, count, or range.



Totals — example views with light and dark themes

Best For	Fleet total load, campus average temp, multi-zone range, aggregate consumption.
Binding	Up to 16 points (point1Ord–point16Ord).
Key Properties	aggregationMode (sum/average/min/max/count/range), showPointCount, showTrend, showBreakdown
Value	Turns many signals into one decision-ready number.

Properties Panel:

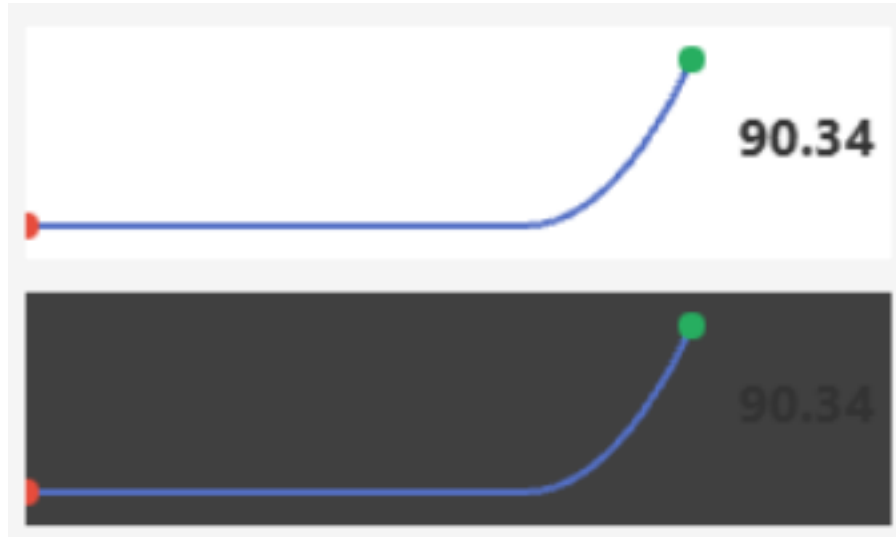


Totals — Niagara Workbench properties

Sparkline

TRENDS & TIME SERIES

Compact inline trend in line, bar, or area style. Min/max markers and current value display.



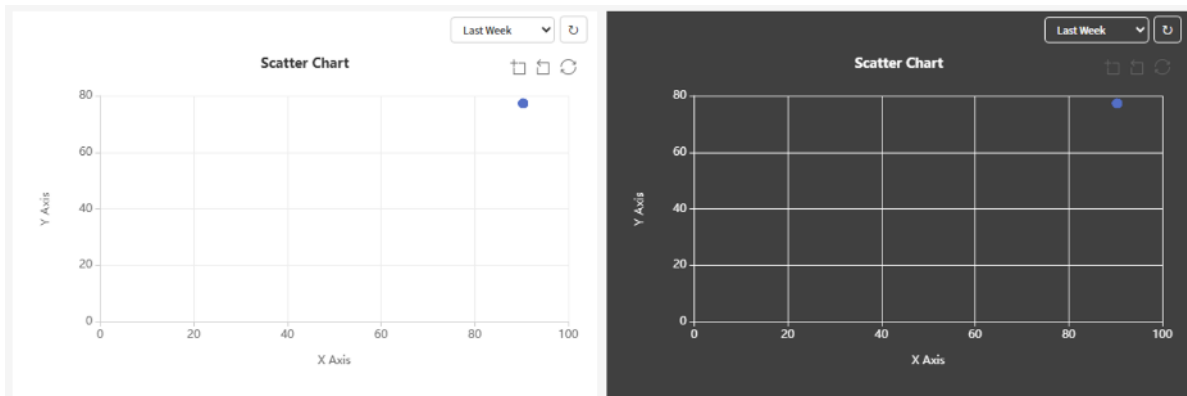
Sparkline — example views with light and dark themes

Best For	Dense summary pages, equipment list rows, compact dashboard tiles.
Binding	Single point (pointOrd).
Key Properties	sparklineStyle (line/bar/area), showMinMax, showCurrentValue, color, maxDataPoints
Value	Micro-visualization for high-information-density layouts.

Scatter Chart

ADVANCED ANALYTICS

Correlation plot (X vs Y) with optional bubble mode and regression line. History-capable.



Scatter Chart — example views with light and dark themes

Best For	Efficiency analysis, cause/effect validation, sensor correlation, commissioning.
Binding	Two points (xPointOrd, yPointOrd), history-capable.
Key Properties	showRegression, bubbleMode, symbolSize, xAxisLabel, yAxisLabel
Value	Advanced analytics visualization for root-cause workflows.

Properties Panel:

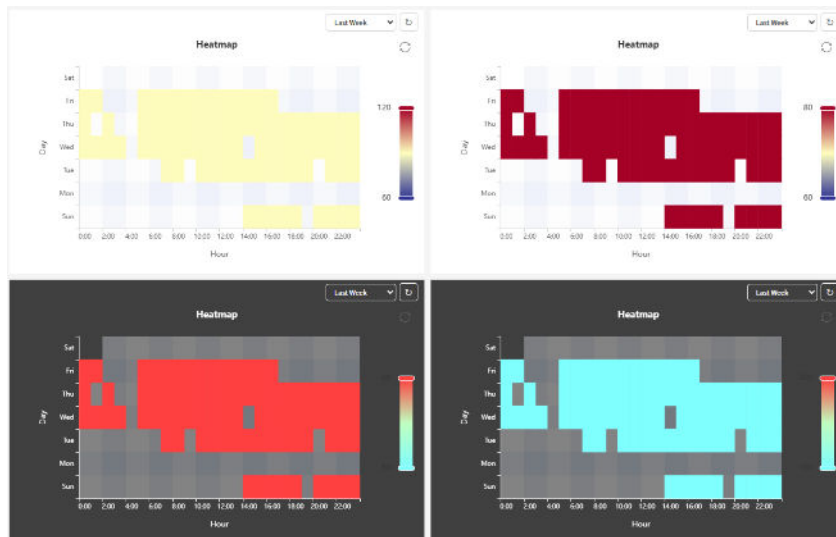


Scatter Chart — Niagara Workbench properties

Heatmap

ADVANCED ANALYTICS

Color-intensity matrix. Three modes: Time of Day, Day of Week, Multi-Point. Reveals hidden patterns.

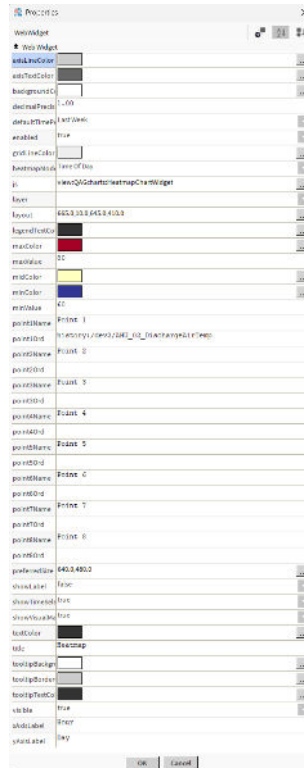


Heatmap — example views with light and dark themes

Best For	Occupancy patterns, energy by hour/day, temperature distribution, scheduling.
Binding	Up to 8 points depending on mode.

Key Properties	heatmapMode (timeOfDay/dayOfWeek/multiPoint), minColor, midColor, maxColor, showVisualMap, showLabel
Value	Reveals operational patterns impossible to see in raw trend lines.

Properties Panel:

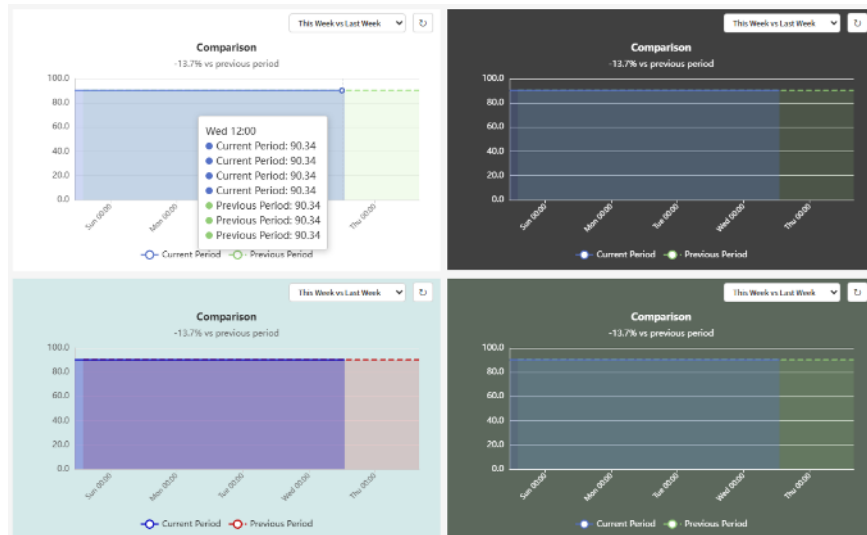


Heatmap — Niagara Workbench properties

Comparison

TRENDS & TIME SERIES

Period-over-period view: current vs previous. Overlay, side-by-side, stacked modes with auto % change.



Comparison — example views with light and dark themes

Best For	Week/month/year-over comparisons, energy savings verification.
Binding	Primary history (historyOrd).
Key Properties	comparisonMode, chartType, showDifference, showArea, smooth, currentLabel, previousLabel
Value	Direct performance narrative chart for optimization reporting.

Properties Panel:

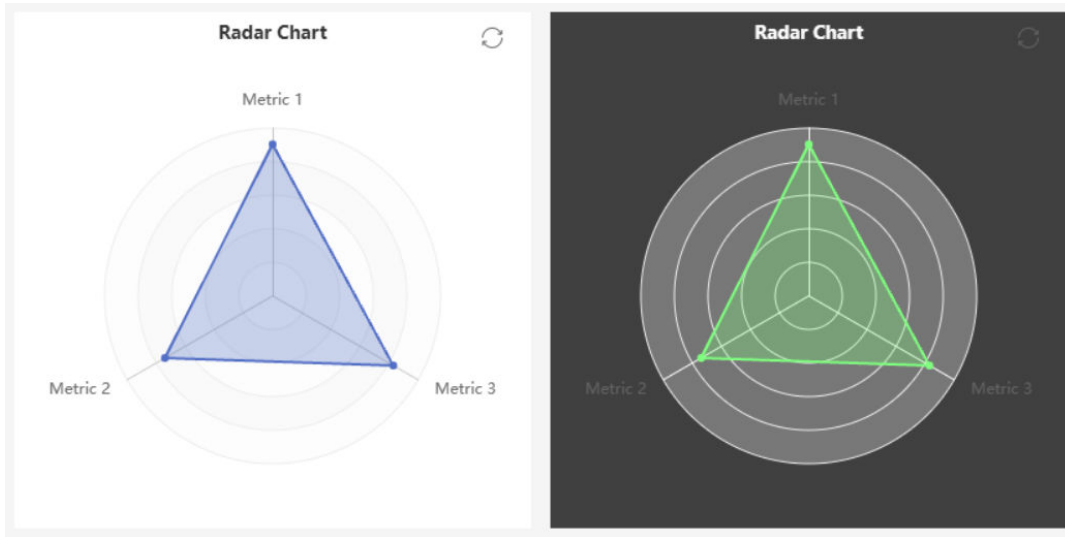


Comparison — Niagara Workbench properties

Radars Chart

ADVANCED ANALYTICS

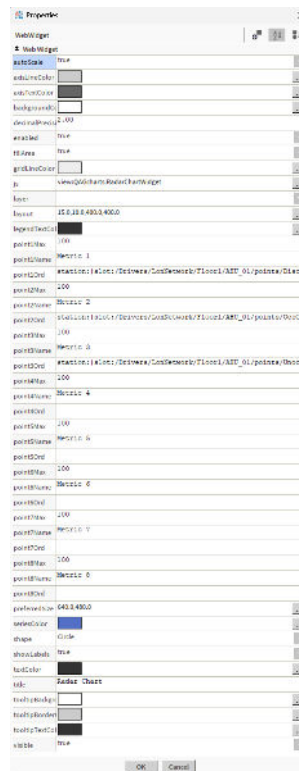
Multi-axis profile chart. Up to 8 metrics on radial axes creating a visual performance shape.



Radar Chart — example views with light and dark themes

Best For	Balanced scorecards, equipment health, multi-criteria scoring.
Binding	Up to 8 metrics with optional per-metric max.
Key Properties	shape (polygon/circle), fillArea, showLabels, seriesColor, autoScale
Value	Holistic shape of performance visualization.

Properties Panel:

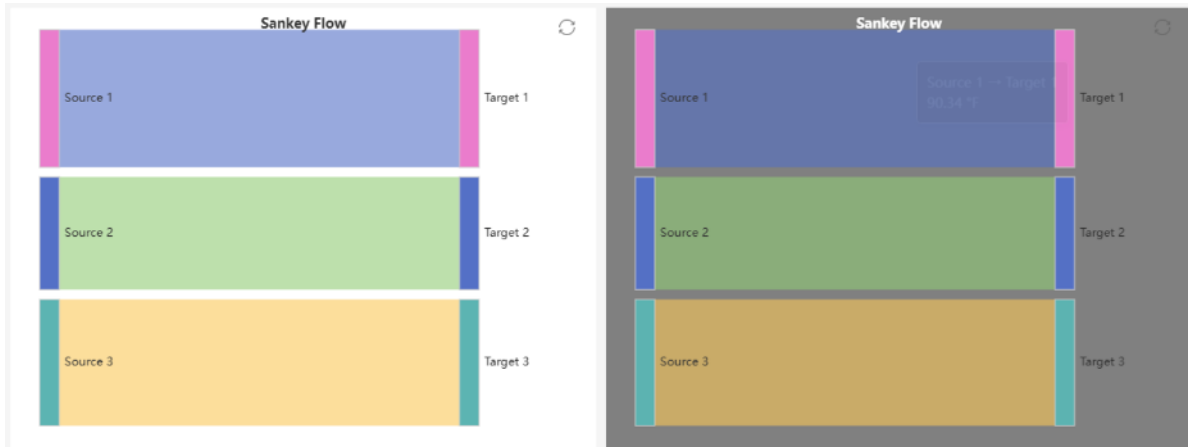


Radar Chart — Niagara Workbench properties

Sankey Flow

ADVANCED ANALYTICS

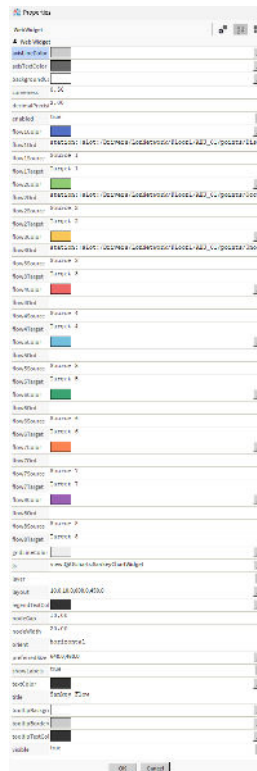
Directed flow diagram. Sources to targets with proportional flow widths.



Sankey Flow — example views with light and dark themes

Best For	Energy distribution, HVAC airflow, water treatment, loss analysis.
Binding	Up to 8 flows with flowXOrd, flowXSource, flowXTarget, flowXColor.
Key Properties	orient, nodeWidth, nodeGap, curveness, showLabels
Value	Best chart for transformation and routing narratives.

Properties Panel:

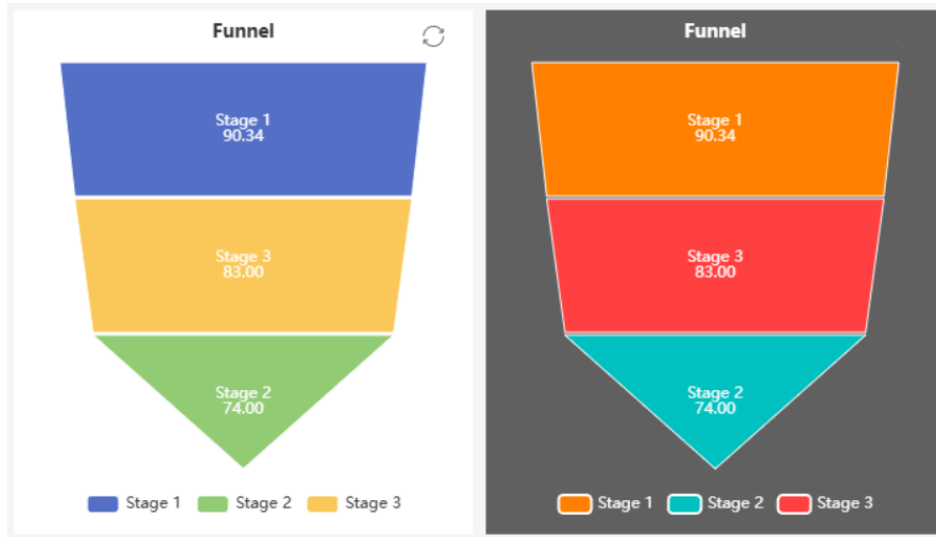


Sankey Flow — Niagara Workbench properties

Funnel

CATEGORY & PROPORTION

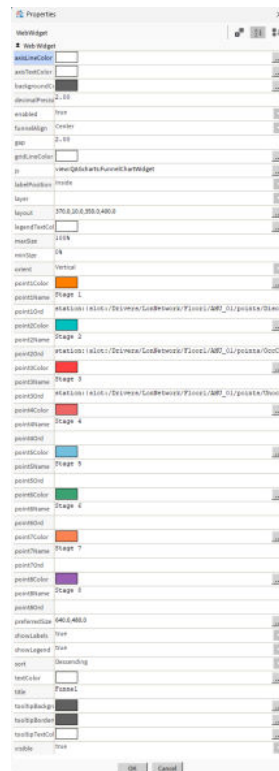
Stage-based conversion chart. Vertical/horizontal, ascending/descending/unordered.



Funnel — example views with light and dark themes

Best For	Alarm stages, work order funnels, filtration efficiency, process compliance.
Binding	Up to 8 stages with values/names/colors.
Key Properties	orient, sort, funnelAlign, gap, minSize, maxSize, showLabels, labelPosition
Value	Clear stage-efficiency and loss-visibility chart.

Properties Panel:

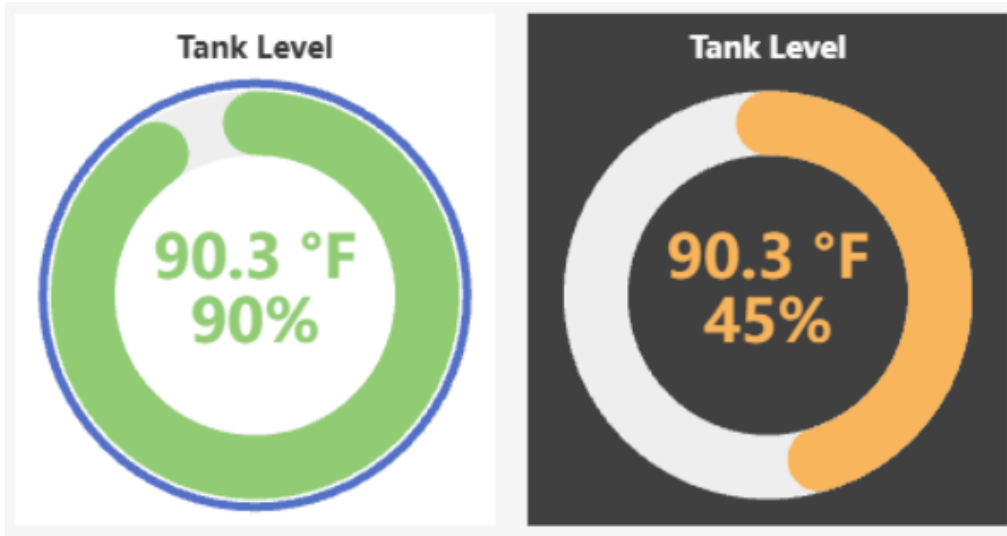


Funnel — Niagara Workbench properties

Liquid Fill

REAL-TIME STATUS

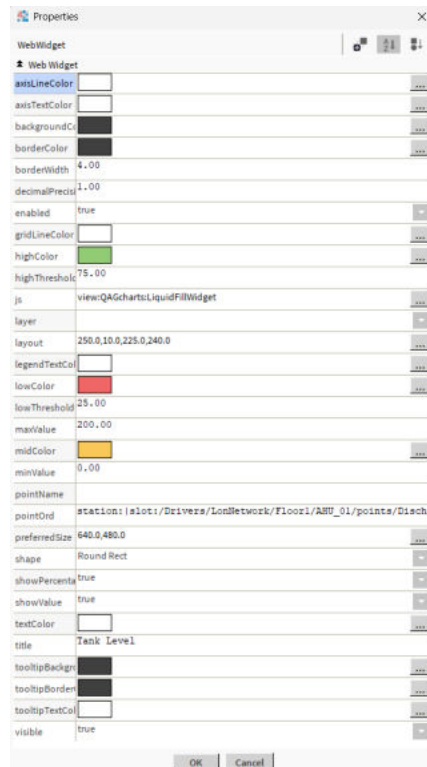
Circular or rounded-rect capacity gauge with animated fill and three-zone threshold coloring.



Liquid Fill — example views with light and dark themes

Best For	Tank levels, reservoir capacity, occupancy, cooling tower basin.
Binding	Single point (pointOrd).
Key Properties	shape (circle/roundRect), showPercentage, showValue, borderWidth, lowThreshold, highThreshold
Value	Intuitive 'how full' visual for operations.

Properties Panel:



Liquid Fill — Niagara Workbench properties

Candlestick

TRENDS & TIME SERIES

OHLC range visualization over time. Optional 5-day and 10-day moving averages plus volume.



Candlestick — example views with light and dark themes

Best For	Daily temperature ranges, price volatility, operational range analysis.
Binding	Single point with history (pointOrd).
Key Properties	upColor, downColor, showMA5, showMA10, showVolume, enableZoom, showTimeSelector
Value	Financial-style range intelligence for operational data.

Properties Panel:

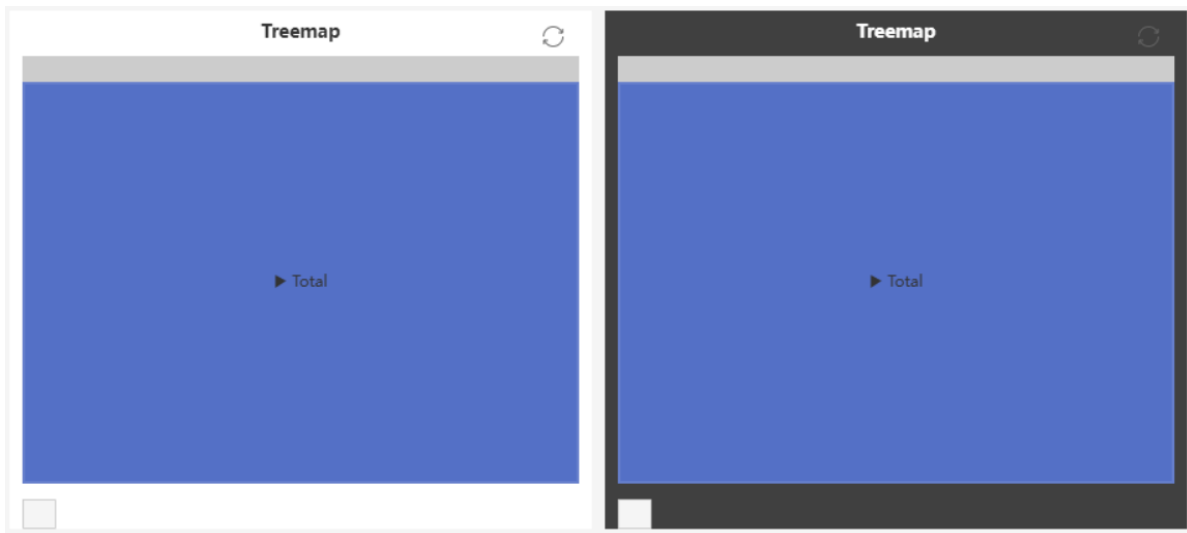


Candlestick — Niagara Workbench properties

Treemap

CATEGORY & PROPORTION

Hierarchical proportional rectangles. Area = relative value. Parent-child grouping with breadcrumb drill-down.



Treemap — example views with light and dark themes

Best For	Energy breakdown by building/floor/zone, cost allocation, portfolio sizing.
Binding	Up to 8 categories with optional pointXPARENT.
Key Properties	rootName, showBreadcrumb, leafDepth, roam, showLabels, labelPosition

Getting Started

Install QAG Charts by placing the module JAR in your Niagara modules directory and restarting the station. The QAGcharts palette appears in Workbench, ready to drag chart widgets onto any PX page or HTML5 dashboard.

Each widget is fully self-contained. Bind it to control points or history ORDs, adjust the styling to match your theme, and you're done. No JavaScript, no custom views, no external dependencies.

QAG Charts for Niagara 4
18 chart types. Full customization. Zero coding.