

Dial (gauge) via image object

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🔧 Dial (gauge) via image object

Dial/gauge display via an image object – JFreeChart DialPlot, evaluation time = report and label limits.

HOW-TO

APPLICATION DEVELOPER

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APPLIES TO NUCLOS 4.2026.X

On this page

- [Summing the value correctly](#)
- [Implementation](#)
- [Related pages](#)

A **dial (gauge)** cannot be shown as a standard chart but via an **image object** whose picture is drawn by a JFreeChart DialPlot (based on DialDemo2.java).

Summing the value correctly

To output a sum over a variable:

- Create a variable with **Reset Type = Report** (sum over all records).
- Set **Evaluation Time = Report** on the image – the value is passed to image generation only after the full calculation.

Implementation

A scriptlet/customizer class turns the value into a java.awt.Image: it builds a DialPlot with scale, needle and cap, wraps it in a JFreeChart and draws it via Graphics2D into a BufferedImage (e.g. 250×250 px):

```
Graphics2D g2 = image.createGraphics();
jfreechart.draw(g2, new Rectangle2D.Double(0.0, 0.0, 250, 250));
g2.dispose();
return image;
```



Label limits

The dial label does **not** support \n (line break). For multi-line labels use a **second label**.

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