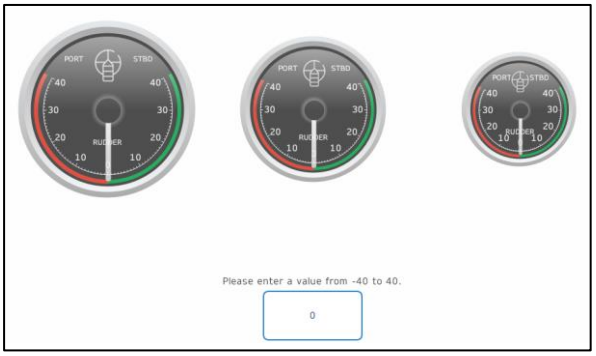
Sample Templates Document: GPS_Gauge_Rudder01.blu



All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use Schneider Electric software or approved software with our hardware products may result in injury, harm, or improper operating results.
Failure to observe this information can result in injury or equipment damage.

Safety Information

Important Information

NOTICE

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

PLEASE NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

About the Book

At a Glance

Document Scope

This manual describes how to use this product.

Validity Note

This documentation is valid for this product.
The technical characteristics of the device(s) described in this manual also appear online at *http://www.pro-face.com*.

The characteristics presented in the present document should be the same as those that appear online. In line with our policy of constant improvement we may revise content over time to improve clarity and accuracy. In the event that you see a difference between the document and online information, use the online information as your reference.

Registered Trademarks

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Product names used in this manual may be the registered trademarks owned by the respective proprietors.

Related Documents

You can download the manuals related to this product, such as the software manual, from our support site at *http://www.pro-face.com/trans/en/manual/1001.html*.

Product Related Information

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In the event this product does not run properly due to whatever reason, it may be difficult or impossible to identify a function. Functions that may present a hazard if not immediately executed, such as a fuel shut-off, must be provided independently of this product. The machine's control system design must take into account the operator being unable to control the machine or making mistakes in the control of the machine.

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

The application of this product requires expertise in the design and programming of control systems. Only persons with such expertise should be allowed to program, install, alter, and apply this product.

- Follow all local and national safety standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

For additional information, refer to NEMA ICS 1.1 (latest edition), "Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control" and to NEMA ICS 7.1 (latest edition), "Safety Standards for Construction and Guide for Selection, Installation and Operation of Adjustable-Speed Drive Systems" or their equivalent governing your particular location.

Table of Content

Target: ST-6500WAD

Driver: None

BLUE version 3.3 or later

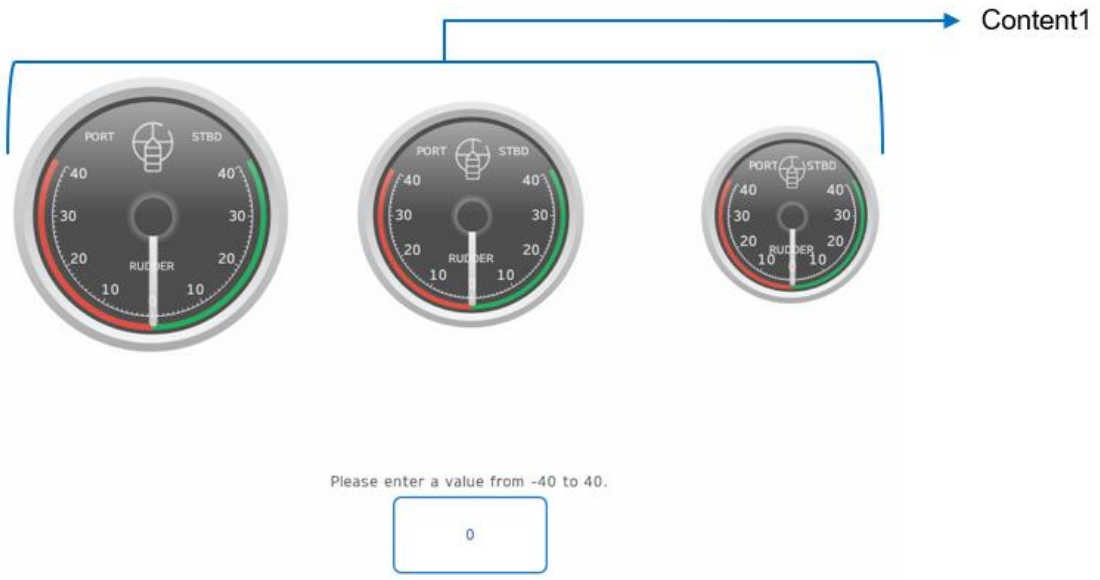
Template Overview

This template has circular Rudder gauge scaled from -40 to 40.

Project structure

- On Simple_Demo screen, 3 Content displays (Layout Object) of different sizes are placed. GPS_Gauge_Rudder01 Content is called in Simple_Demo screen.

Screen			
Simple_Demo	ContentDisplay1 (Contents ID: 1)	GPS_Gauge_Rudder01	Rudder Gauge – Size:300 x 300
	ContentDisplay2 (Contents ID: 1)		Rudder Gauge – Size:250 x 250
	ContentDisplay3 (Contents ID: 1)		Rudder Gauge – Size:200 x 200



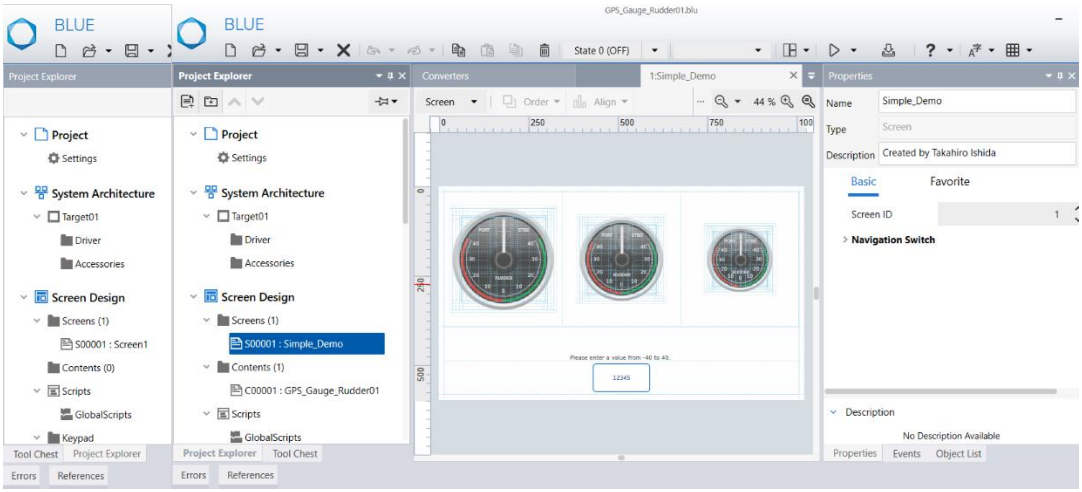
Run Time Behavior

Runtime/Simulation of this template displays a Numeric Display with 3 circular rudder gauge.

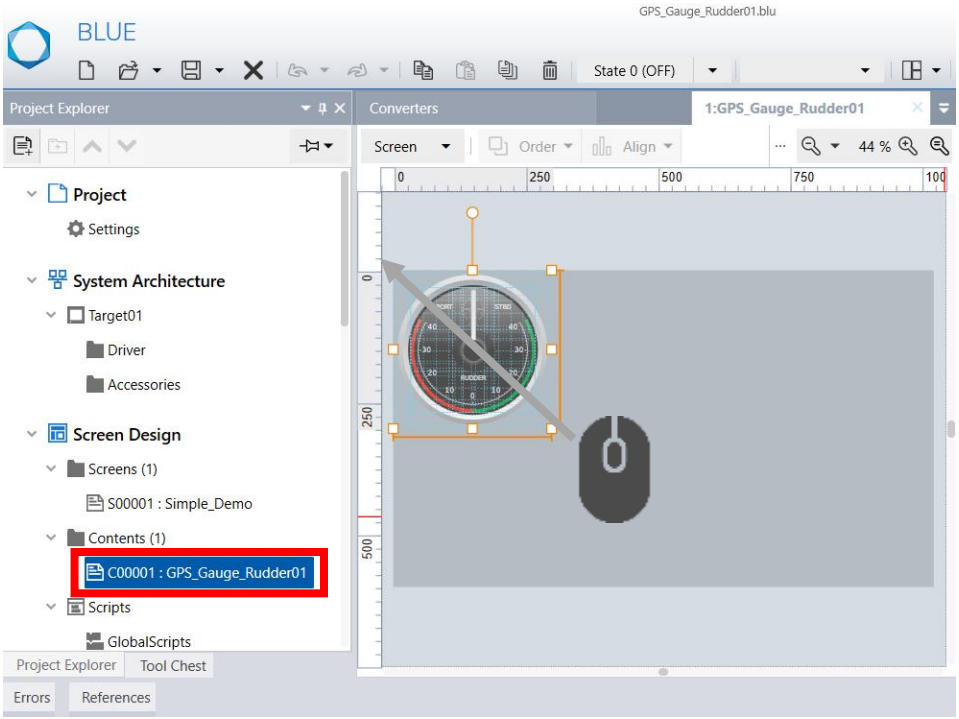
Click the Numeric Display and edit the value between -40 to 40 to display value change in the circular rudder gauge.

How to copy the objects to your project file

1. Open your project file and downloaded project file simultaneously.

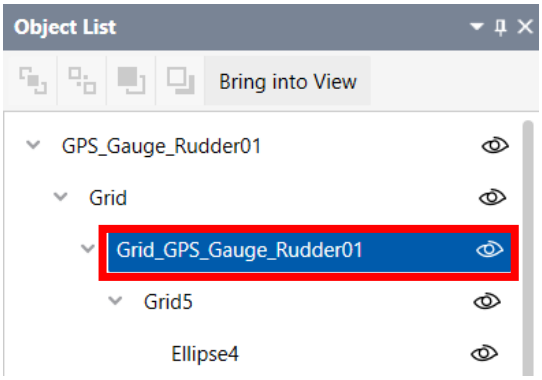


2. Open the downloaded project file and select the Grid object.
   - Click the Content from “Contents” and select the Grid parts by dragging the mouse



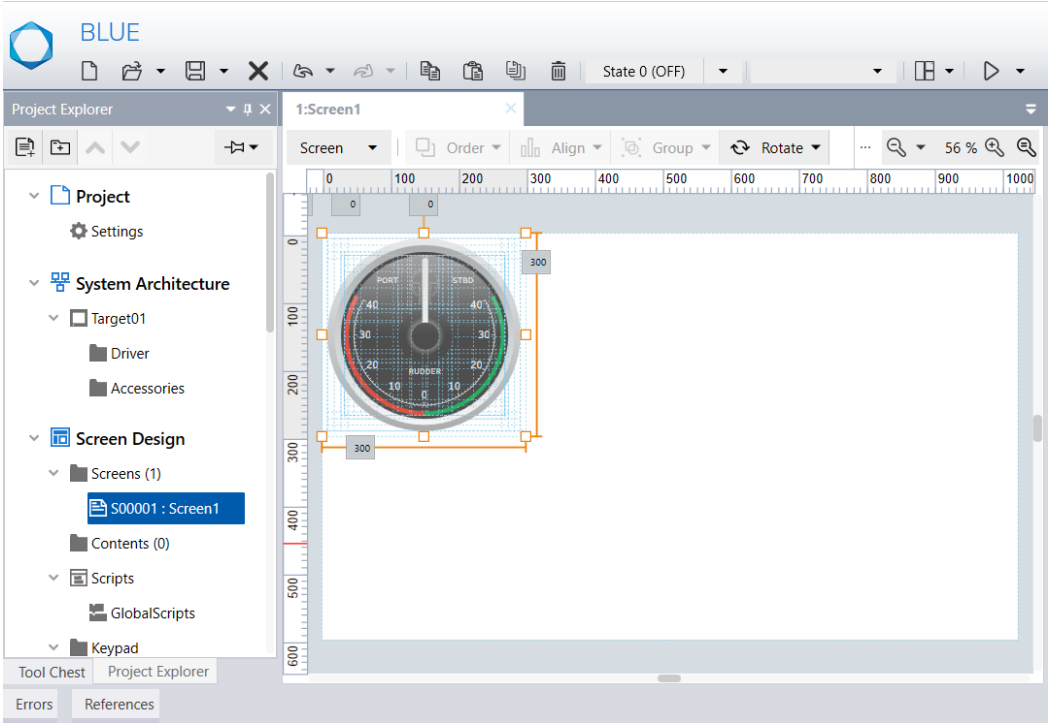
Or

- In Object List, select Grid_GPS_Gauge_Rudder01 object.



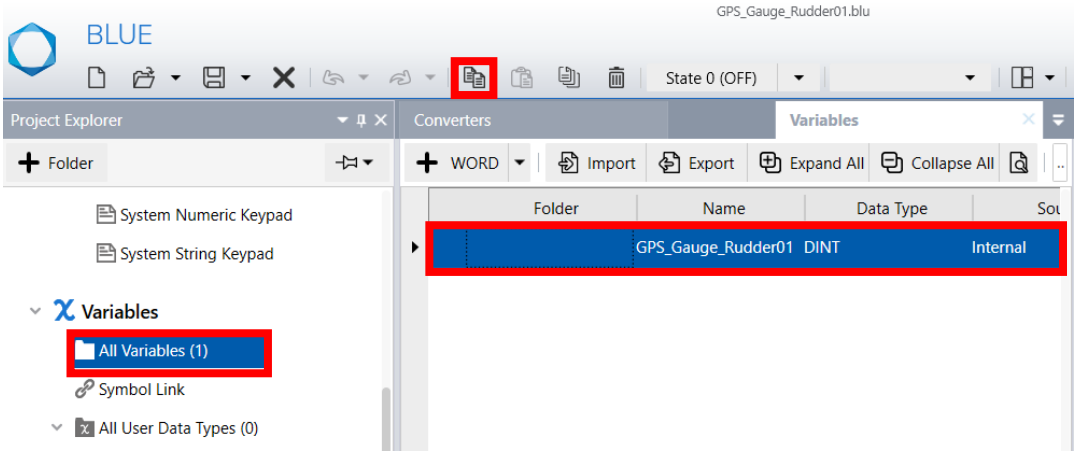
3. Copy the selected Grid object in content using copy icon in global Toolbar.

4. Open your project file.
   Select the desired Screen/Content and click the paste icon in global Toolbar.

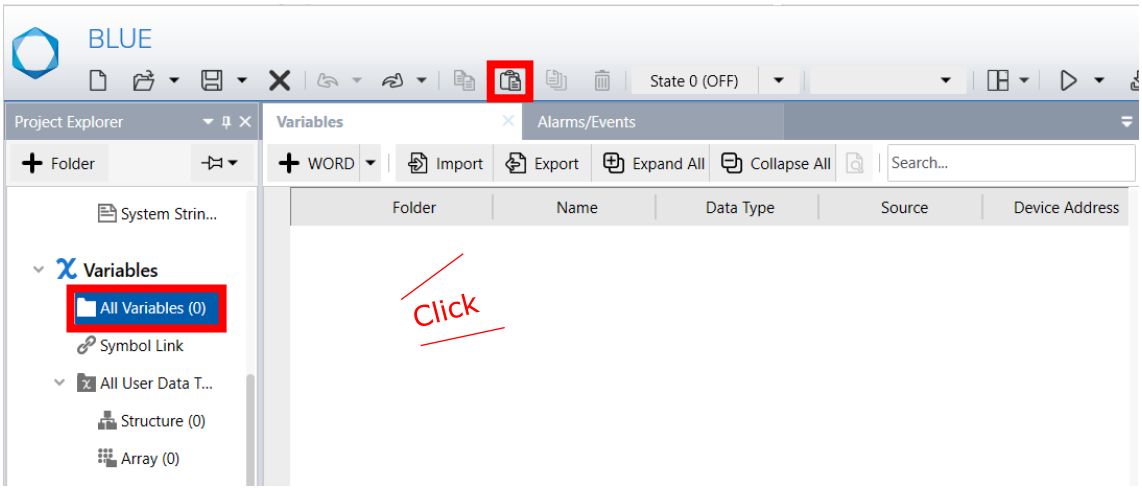


5. You can resize the Rudder gauge. For more details, refer How to Resize Rudder Gauge.

6. Open the downloaded project file and select “All variables”. Select the displayed variables and click the copy icon from global Toolbar.

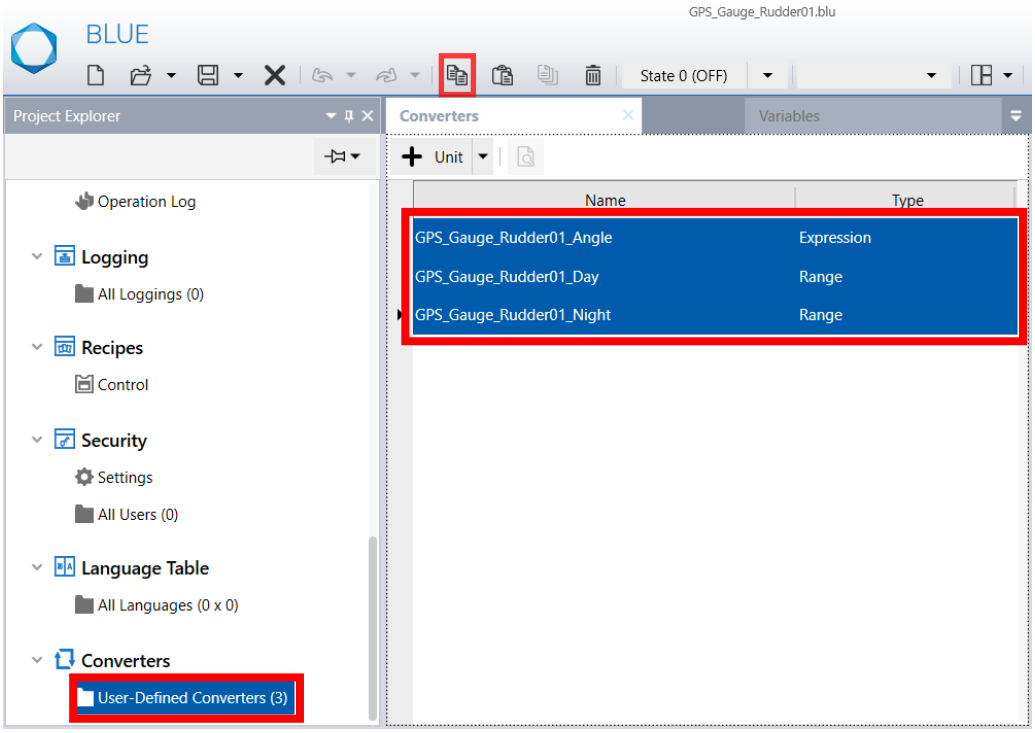


7. Open your project file and select “All Variables”.
Click an existing variable or a blank Variable and click paste icon in global toolbar.

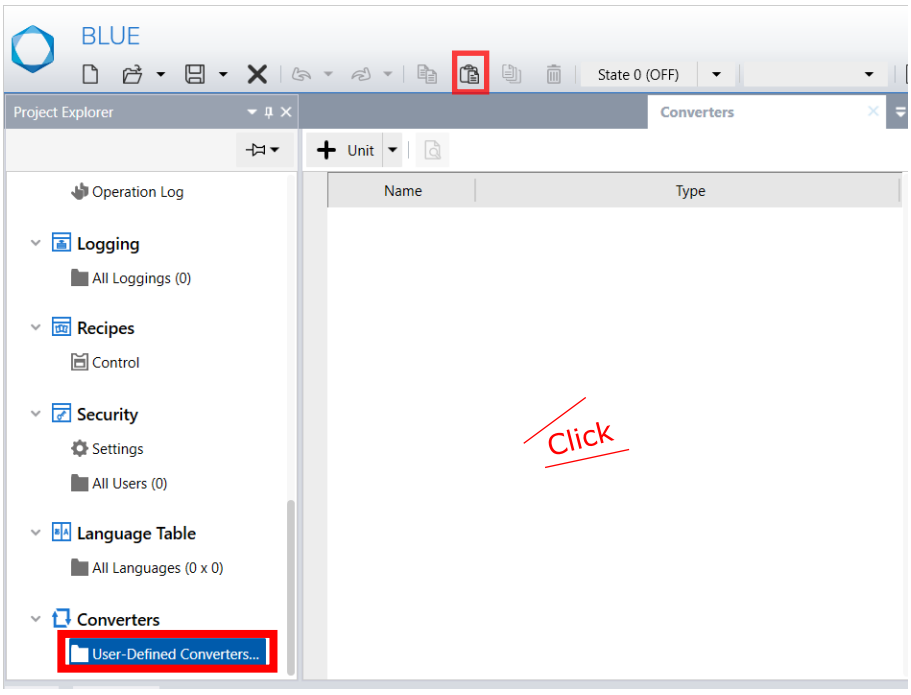


The copied variable is pasted in your project.
Note1: You can also create your own variables to display in Rudder gauge. For more details, refer How to change Rudder Gauge variable
Note2: You can also vary the variable input range. For more details, refer How to change variable input range

8. Open the downloaded project file, select “User-Defined Converters”. Select the displayed converter and click the copy icon from the global Toolbar.

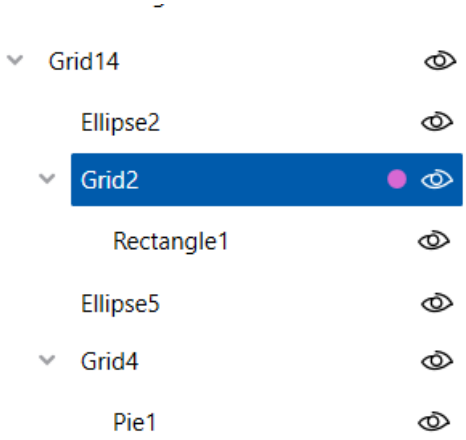


9. Open your project file, select “User-Defined Converters”. Click on the Converter screen and click paste icon from the global Toolbar.

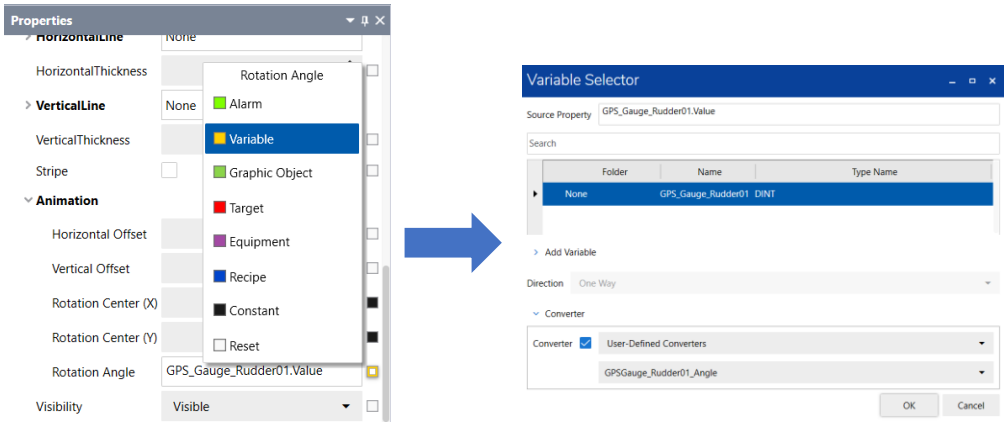


How to change Rudder Gauge variable

1. Open your project, in screen (where Rudder Gauge is placed), click on object list and select Grid2 in grid object (Grid_GPS_Gauge_Rudder01).



2. In Properties tab, Select **Basic** > **Animation** > **Rotation Angle** and bind the desired variable from variable selector and click ok.

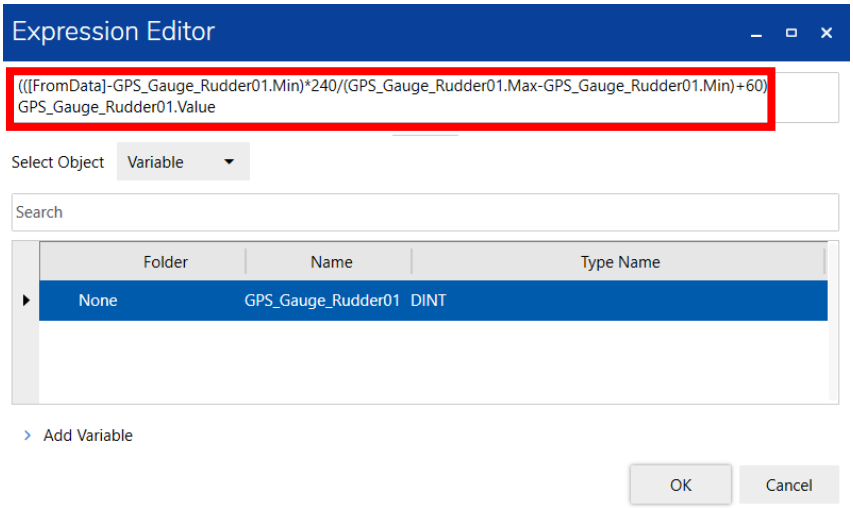


Note: Make sure to configure the input range same as source. For more details, refer How to change variable input range.

3. In Project Explorer, select “User-Defined Converters”. Then Select GPS_Gauge_Rudder01_Angle

4. In Properties, Click ... to open Expression Editor.

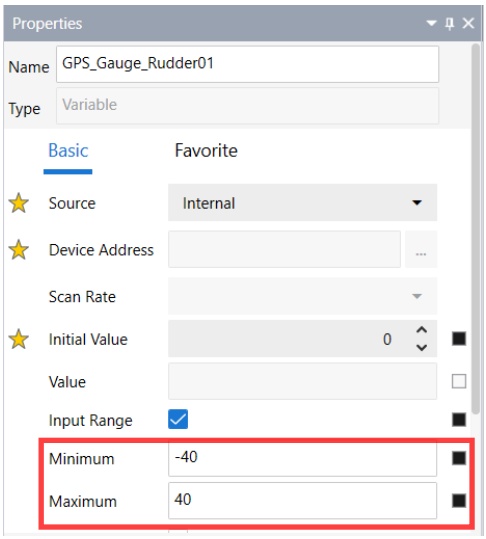
5. In Expression Editor, select the desired variable and its Min/Max in expression and click ok.



How to change variable input range

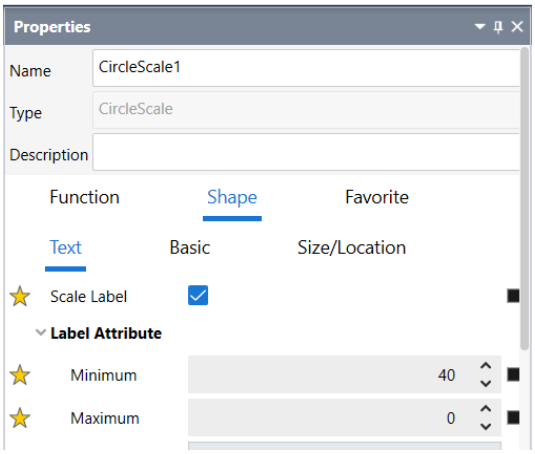
1. Open your project, click on ‘All Variables’, and select the variable binded to Rudder Gauge.

2. In Properties tab, change the ‘Minimum’ and ‘Maximum’ value for the input range as negative and positive value of same number (Example as -15 to 15).

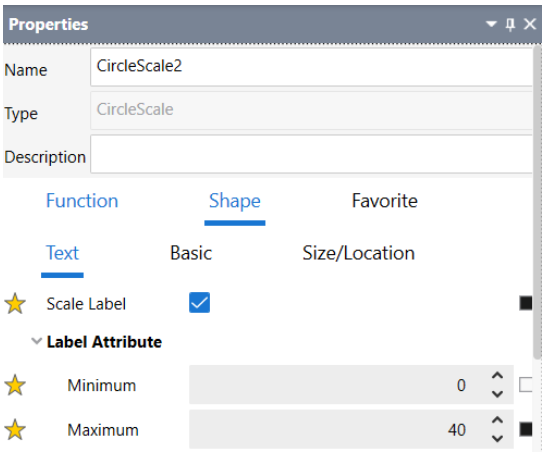


3. In Project Explorer, select Screen/Content where Rudder Gauge is placed.

4. In Object List, select CircleScale1. In Properties tab, select **Shape** > **Text** > **Label Attribute** > **Minimum** and change the value to maximum value of input range used in variable (in step2).



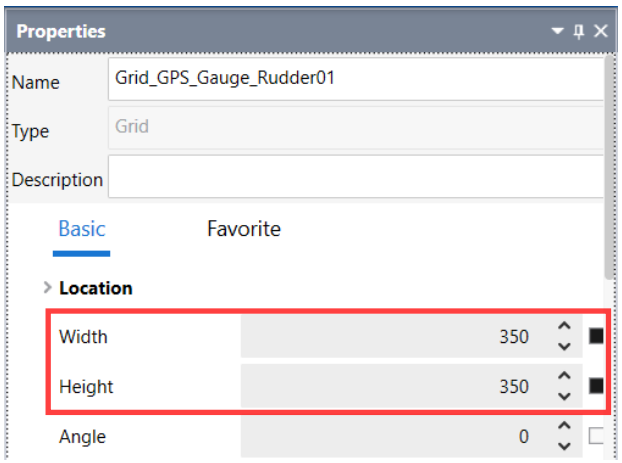
5. Then, select CircleScale2. In Properties tab, select **Shape** > **Text** > **Label Attribute** > **Maximum** and change the value to minimum value (without -ve sign) of input range used in variable (in step2).
   Note: This value will be same as value used in CircleScale1



How to Resize Rudder Gauge

1. Select Screen (where Rudder Gauge is placed) and then select the Grid object (Grid_GPS_Gauge_Rudder01).

2. In properties tab, change the Width and Height of the Grid object (Grid_GPS_Gauge_Rudder01).

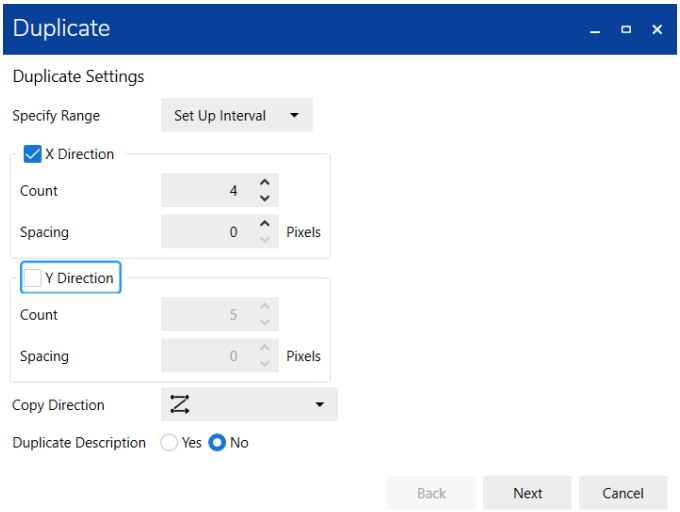


Note:

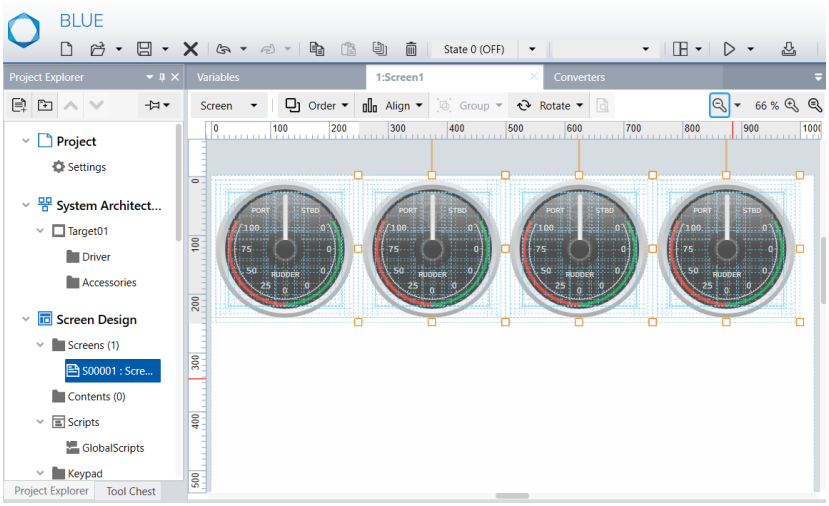
1. Set same value of width and height to maintain the shape.
2. Modify the font size of text to fit as per the new size change.

How to Duplicate Rudder Gauge

1. In screen, select the Grid object (Grid_GPS_Gauge_Rudder01) and click the duplicate icon.
   Result: Duplicate window appears
2. Select all desired fields (direction to copy, the number, increment source property ….) and click “Duplicate”



Result: The Grid objects (Grid_GPS_Gauge_Rudder01) are duplicated.



Note:

Duplicate feature can be used, only if common variable/converter is used.

To use an independent Grid object, repeat the below steps,

- Rename the Variable and converter of first Grid object.
- Execute Copying of Grid Object again from template project. For more details, refer How to copy the objects to your project file.

How to Move the Grid Parts

To move the Grid Parts, select the Grid Parts by dragging a mouse and click the outside frame (within 8 pixels) and move it. Else, the form of the Grid Parts will not be kept.