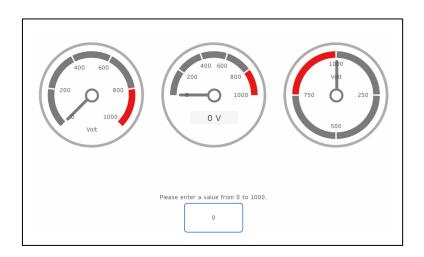


Sample Templates Document: GPS_Gauge_Flat01.blu





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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.

A WARNING

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

A 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.



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Target: ST-6500WAD

Driver: None

BLUE version 3.3 or later

Template Overview

This template has 6 different Flat gauges ranging from value 0 to 1000 volts with 3 different angle of rotations (0 to 270, 0 to 180 and 0 to 360 degree).

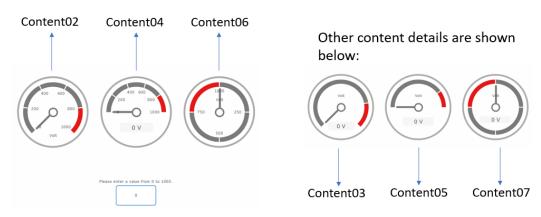
Project structure

 On Simple_Demo screen, 3 Content displays are placed, and different contents are called in Simple_Demo screen.

Screen			
Simple_Demo	ContentsDisplay1 (Contents ID: 2)	GPS_Gauge_Flat01_270A	Needle rotation: 0 to 270 degrees (with division)
	(Contents ID: 3)	GPS_Gauge_Flat01_270B	Needle rotation: 0 to 270 degrees (with display number)
	Contents ID: 4)	GPS_Gauge_Flat01_180A	Needle rotation: 0 to 180 degrees (with division and display number)
	(Contents ID: 5)	GPS_Gauge_Flat01_180B	Needle rotation: 0 to 180 degrees (with display number)
	ContentsDisplay3 (Contents ID: 6)	GPS_Gauge_Flat01_360A	Needle rotation: 0 to 360 degrees (with division)
	(Contents ID: 7)	GPS_Gauge_Flat01_360B	Needle rotation: 0 to 360 degrees (with display number)



3 content displays are placed in the screen as below:



Run Time Behavior

Runtime/Simulation of this template displays 3 flat gauges ranging from value 0 to 1000 volts with 3 different angle of needle rotations (0 to 270, 0 to 180 and 0 to 360 degree). Click the Numeric Display and edit the value between 0 to 1000 to display value change in the 3 gauges.

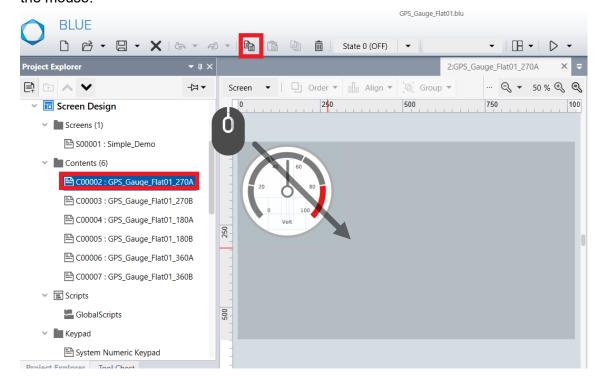


How to copy the objects to your project file

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



- 2. Open the downloaded project file.
 - Click the desired Content from "Contents" and select the Grid parts by dragging the mouse.

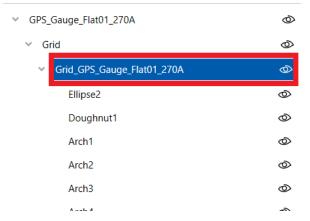


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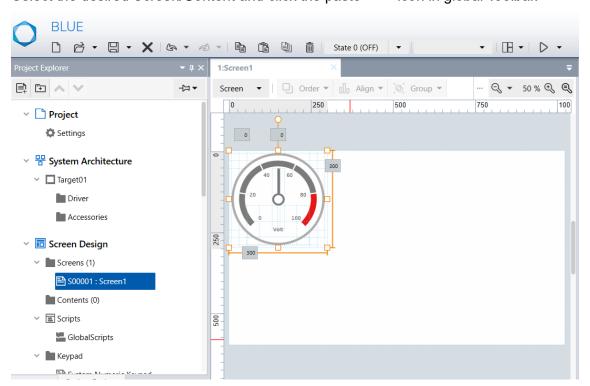


Or

• In Object List, select Grid_GPS_Gauge_Flat01_270A object.



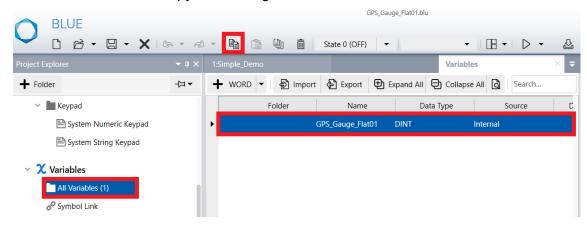
- 3. Copy the selected Grid object in content using 🗎 copy icon in global Toolbar.
- Open your project file.
 Select the desired Screen/Content and click the paste icon in global Toolbar.



Note: You can copy any gauge grids as per the type and number of gauges required in your project.

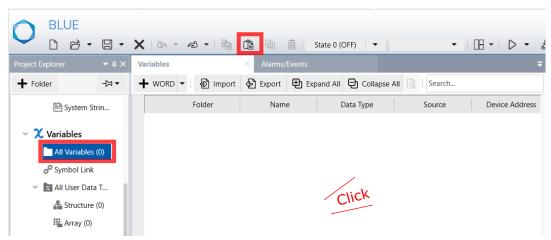


- 5. You can resize the Gauge. For more details, refer How to Resize Flat Gauge.
- 6. Open downloaded project file and select "All variables". Select the displayed variables and click the copy icon from global Toolbar.



7. Open your project file and select "All variables".

Click an existing variable or a blank Variable screen and click paste icon from the global Toolbar.



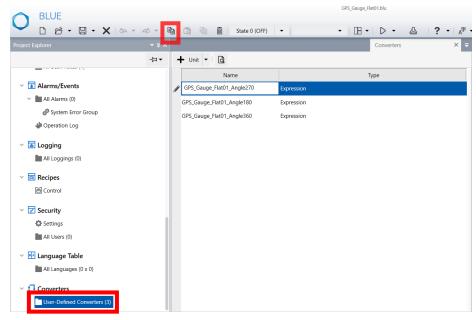
The copied variable is pasted in your project.

Note1: You can also create your own variables to display in gauge. For more details, refer How to change Flat Gauge Variable.

Note2: You can also vary the variable input range. For more details, refer <u>How to change variable input range.</u>

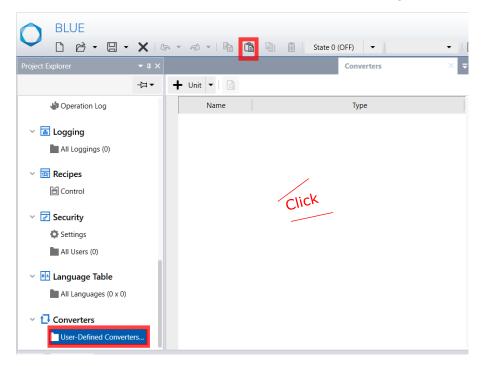


Open the downloaded project file, select "User-Defined Converters".
 Select the required converter and click the copy icon from the global Toolbar.



Note: If Grid part with angle 270 is used in screen/content, then copy GPS_Gauge_Flat01_Angle270 converter. Similarly, for 180 and 360 angle, copy GPS_Gauge_Flat01_Angle180 & GPS_Gauge_Flat01_Angle360 converter respectively.

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



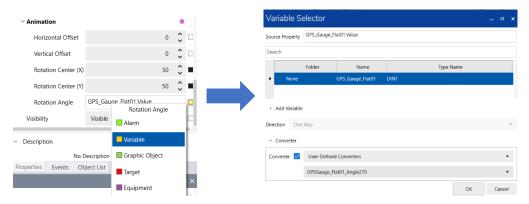


How to Change Flat Gauge Variable

1. Open your project, in screen (where Grid_GPS_Gauge_Flat01_270A is placed), click on Object List and select Grid2 in Grid object.



2. In Properties tab, select **Basic > Animation > Rotation Angle** and select the desired variable from variable selector.

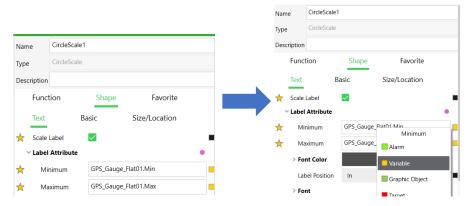


3. Select CircleScale1.





 In Properties tab, Select Shape > Text > Label Attribute > Minimum, Maximum and bind the desired Min/Max of variable same as above from variable selector and click ok.

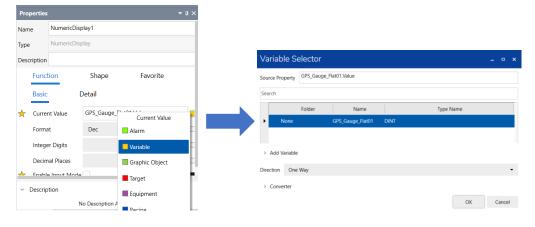


Note: Follow below step (5) and step (6) if content (GPS_Gauge_Flat01_180A) or any content with suffix B is copied to your project.

5. In Gauge grid, click on Object List and select NumericDisplay1.



6. In Properties tab, Select **Function > Basic > Current value** and bind the desired variable (same as step (2)) from variable selector and click ok.



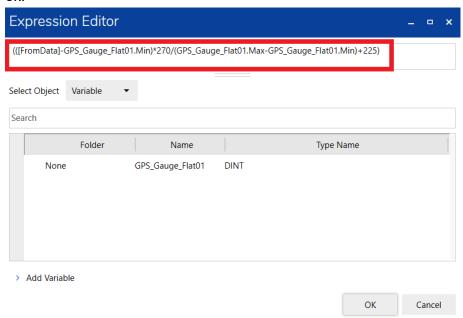
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7. In Project Explorer, select "User-Defined Converters". Then Select copied (GPS_Gauge_Flat01_Angle270) converter.

In Properties, Click to open Expression Editor.

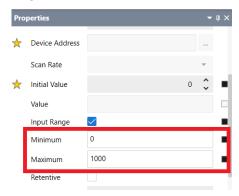
8. In Expression Editor, select the desired variable Min/Max in expression and click ok





How to change Variable input range

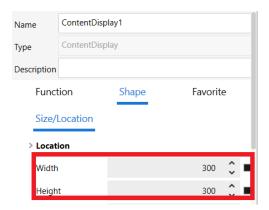
- 1. Open your project, click on 'All Variables', and select the variable binded to Gauge.
- 2. In Properties tab, change the 'Maximum' and 'Minimum' value for the input range.



Result: By changing the input range, the display range is automatically changed.

How to Resize Flat Gauge

- 1. Select Screen (where Flat Gauge is placed) and then select the Grid object (Grid_GPS_Gauge_Flat01_270A).
- 2. In properties tab, change the Width and Height of the Grid object (Grid_GPS_Gauge_Flat01_270A).



Note:

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

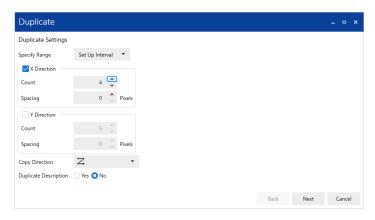


How to Duplicate Flat Gauge

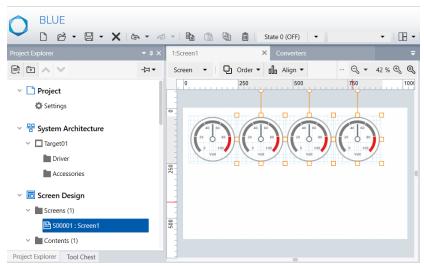
1. In screen, select the Grid object (Grid_GPS_Gauge_Flat01_270A) and click the duplicate icon.

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_Flat01_270A) are duplicated.



Note:

Duplicate feature can be used, only if common variable/converter is used. To use an independent Gauge object, repeat the below steps,

- o Rename the Variable and converter of first gauge object.
- Execute Copying of Gauge 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.

