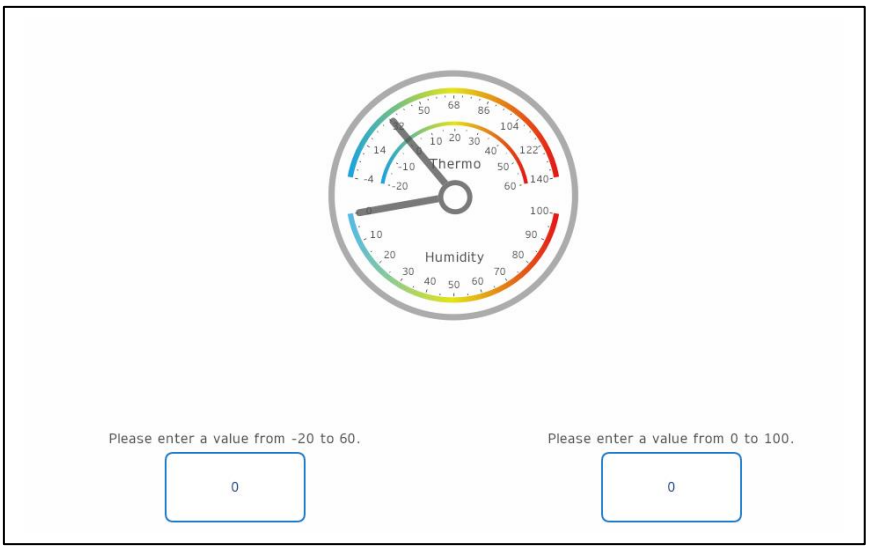
Sample Templates Document: GPS_Gauge_FlatTH01.blu



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

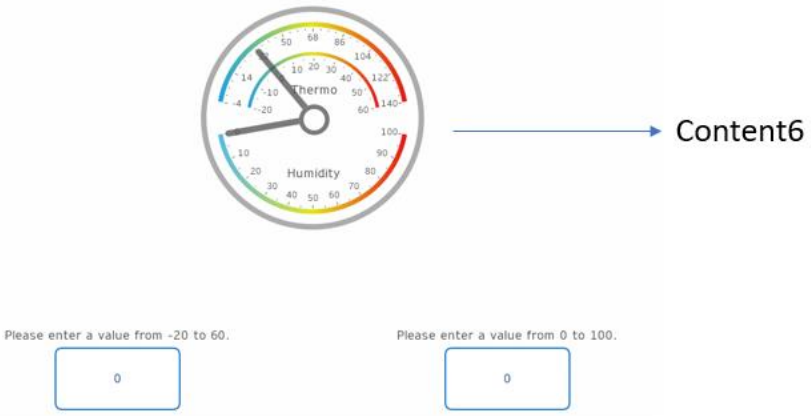
Template Overview

This template has a Thermo Humidity Gauge with 2 scales (with 2 needles), one scale for temperature ranging from value -20 to 60 in degree C (and -4 to 140 in degree F) at the top and other scale for humidity ranging from 0 to 100 at the bottom.

Project structure

- On Simple_Demo screen, 1 Content display is placed, and one content is called in Simple_Demo screen.

Screen			
Simple_Demo	ContentsDisplay3 (Contents ID: 6)	GPS_Gauge_FlatTH01	Thermo Humidity Gauge



Run Time Behavior

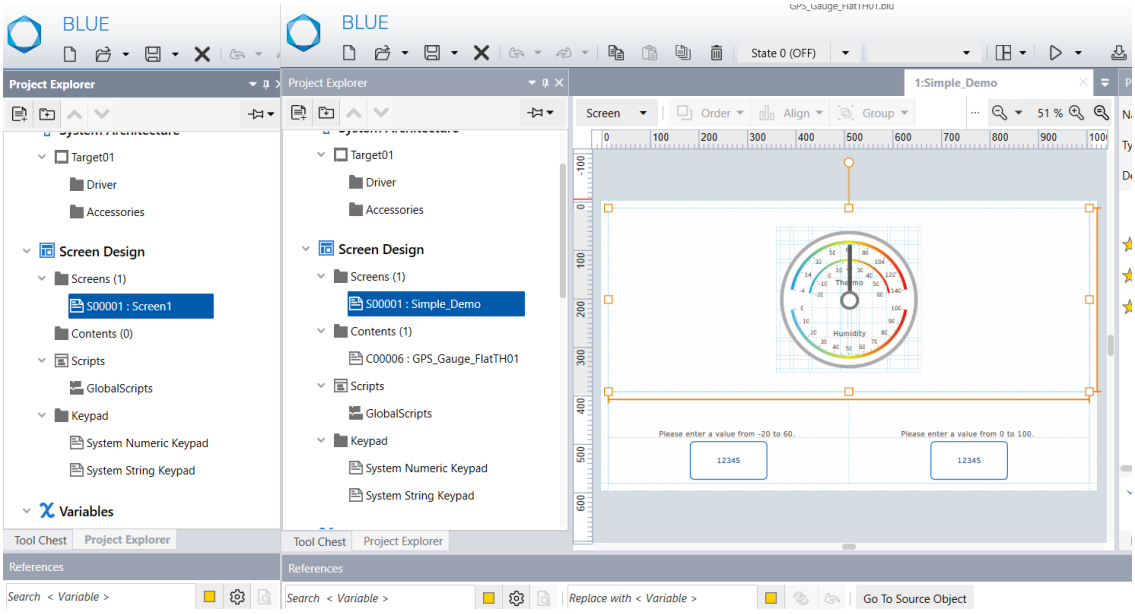
Runtime/Simulation of this template displays Thermo Humidity Gauge with 2 scales (with 2 needles), one scale for temperature ranging from value -20 to 60 in degree C (and -4 to 140 in degree F) at the top and other scale for humidity ranging from 0 to 100 at the bottom.

Click the left Numeric Display and edit the value between -20 to 60 to display value change of temperature in Gauge (Displays in both Celsius and Fahrenheit scale at the top).

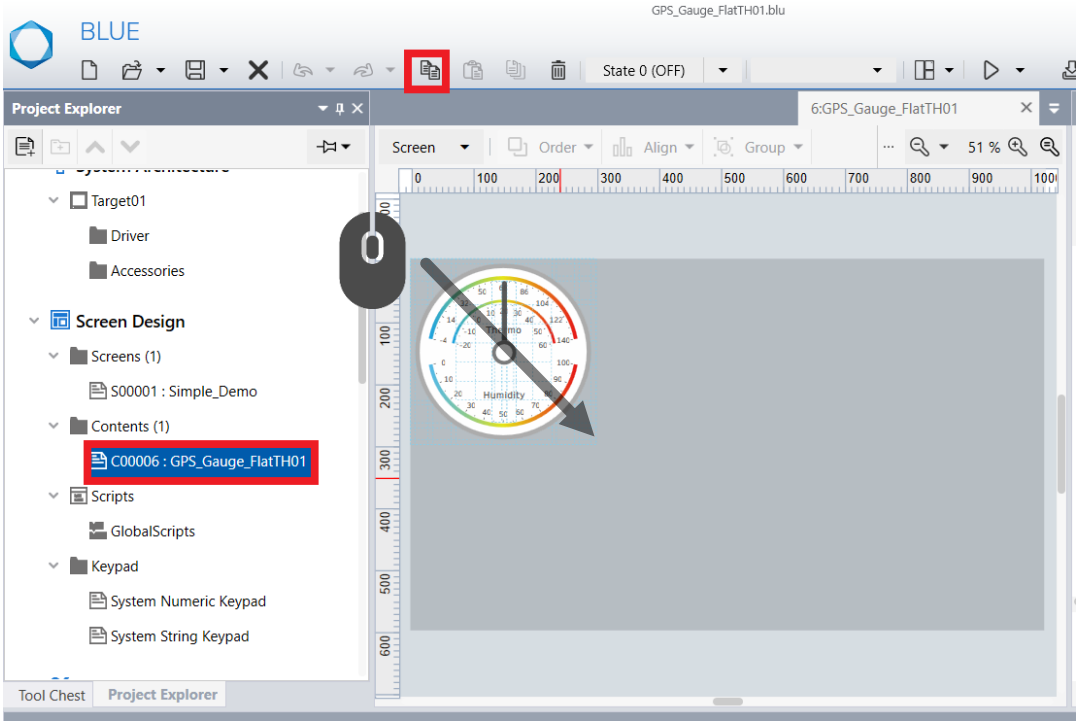
Click the right Numeric Display and edit the value between 0 to 100 to display value change of humidity in Gauge (at the bottom).

How to copy the objects to your project file

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

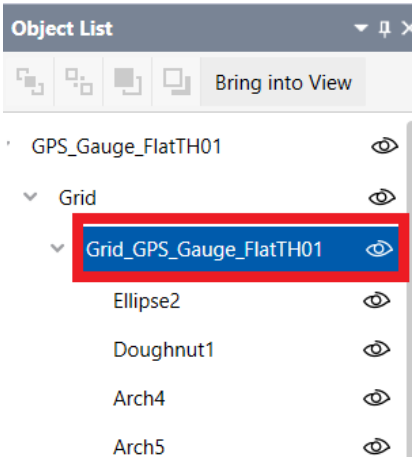


2. Open the downloaded project file.
   - Click the Content:C00006 from “Contents” and select the Grid parts by dragging the mouse.



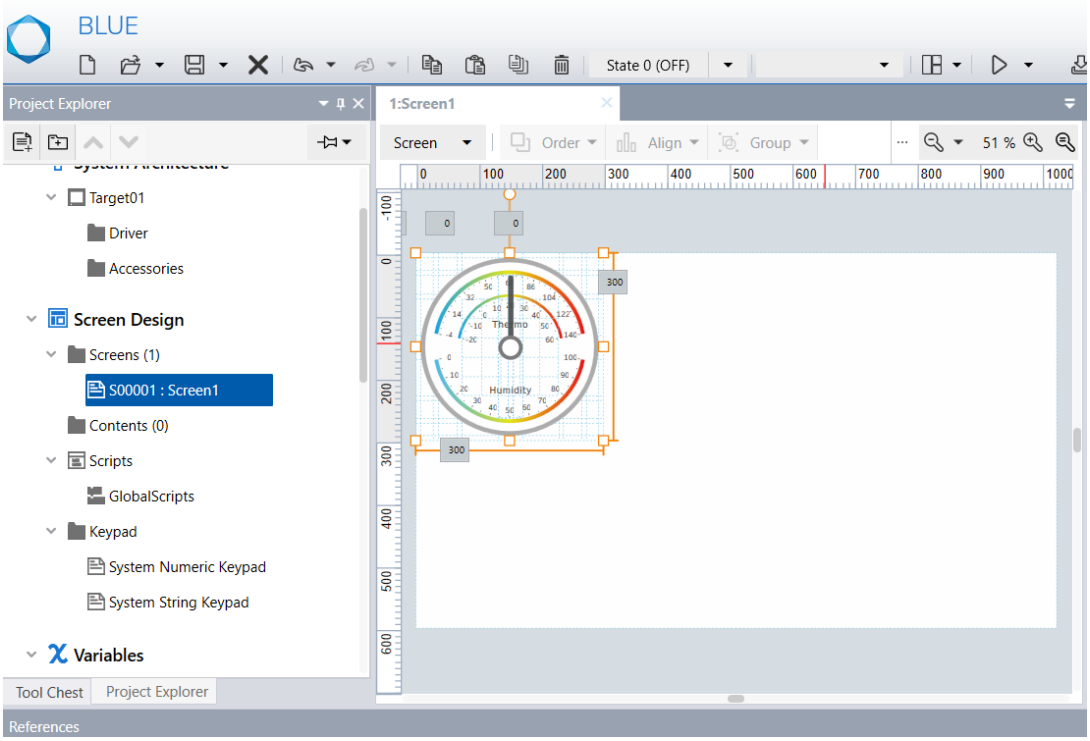
Or

- In Object List, select Grid_GPS_Gauge_FlatTH01 object.



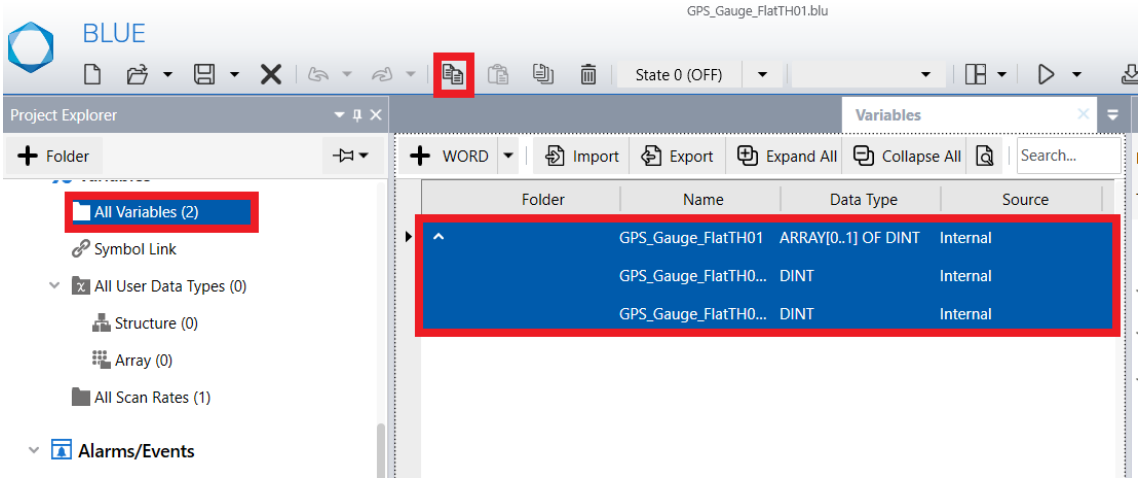
3. Copy the selected Grid object in content using copy icon in global Toolbar.

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

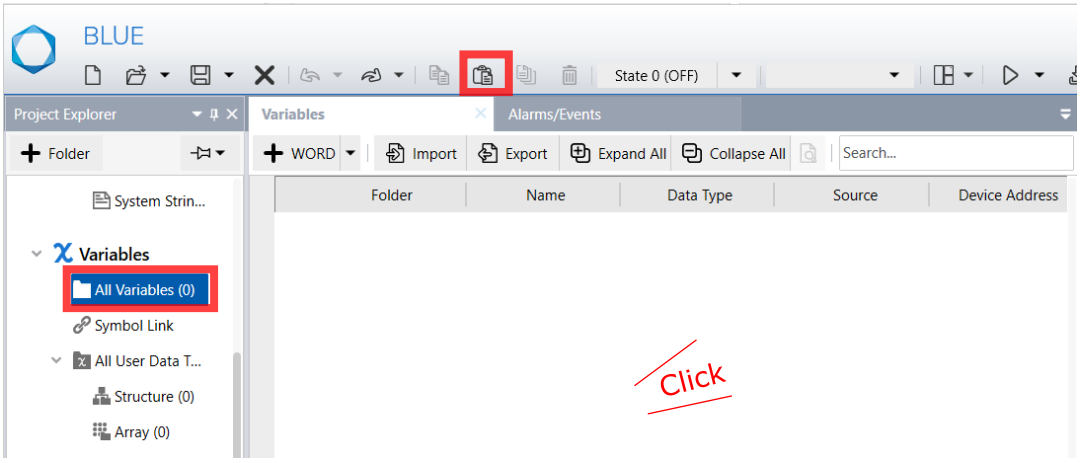


5. You can resize the Gauge. For more details, refer How to Resize Thermo Humidity Gauge.

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

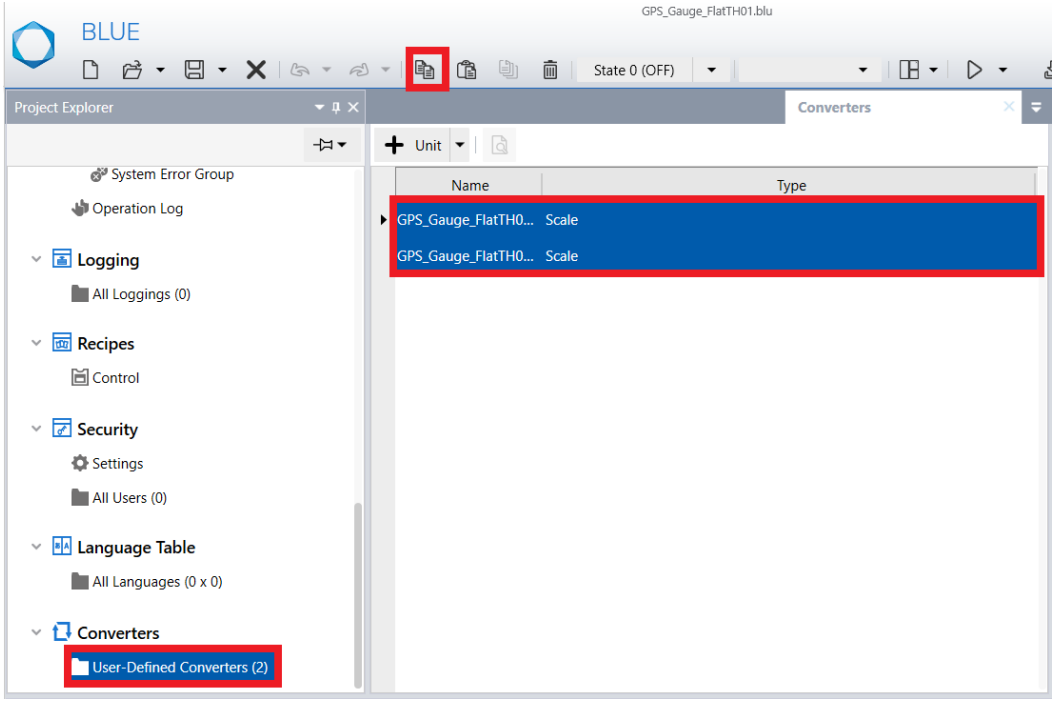


7. Open your project file and select “All variables”.
Click an existing variable or a blank Variable screen and click paste icon from the global Toolbar.

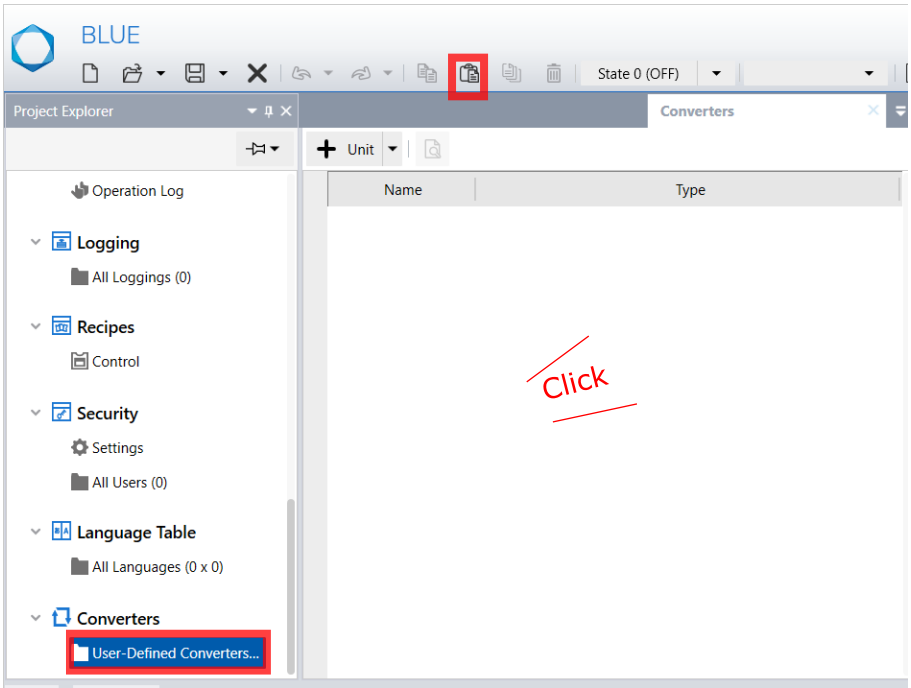


The copied variable is pasted in your project.
Note: You can also create your own variables to display in TH gauge. For more details, refer How to change Thermo Humidity Gauge Variables.

8. Open the downloaded project file, select “User-Defined Converters”.
   Select the displayed converters 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 Thermo Humidity Gauge Variables

When you replace default variable with other variable, make sure their input range is same as source. They are as below:

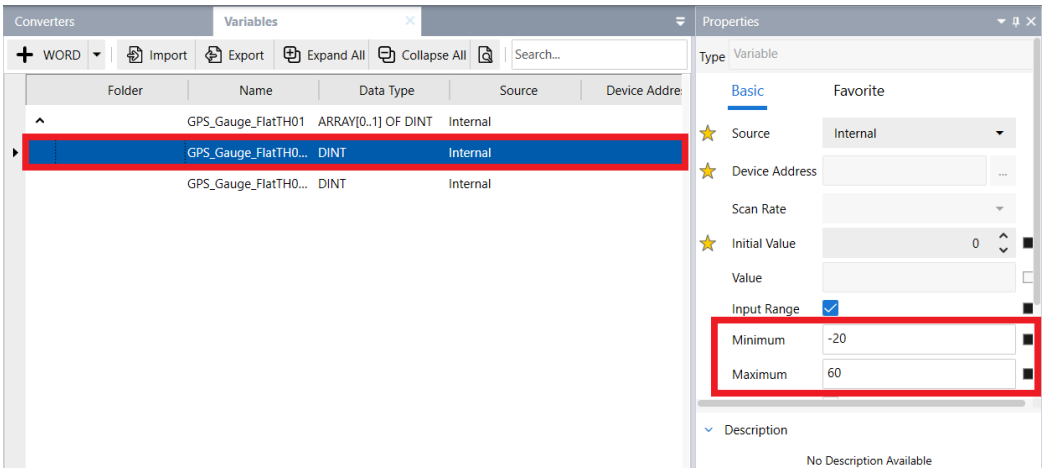
Purpose	Variable	Input Range
Temperature	GPS_Gauge_FlatTH01 [0]	-20 to 60
Humidity	GPS_Gauge_FlatTH01 [1]	0 to 100

Follow below steps for Variable binding,

1. Open your project file and select “All variables”.

2. Select the variable used for temperature (GPS_Gauge_FlatTH01 [0]).

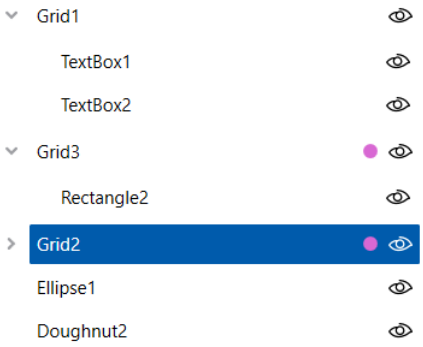
3. In Properties, select **Basic** > **Input Range > Minimum (& Maximum)** and edit the range as -20 to 60.



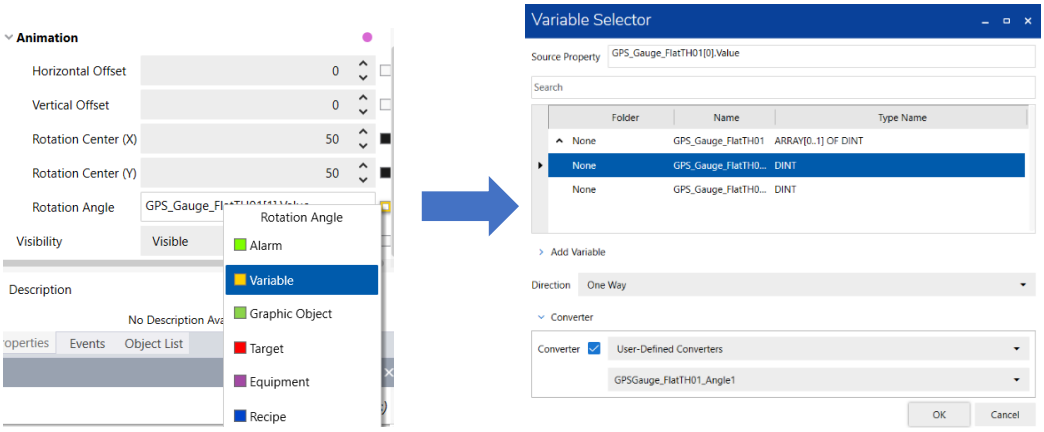
4. Repeat the above step for variable used for humidity (GPS_Gauge_FlatTH01 [1]) and edit the range as 0 to 100.

Follow below steps for object binding,

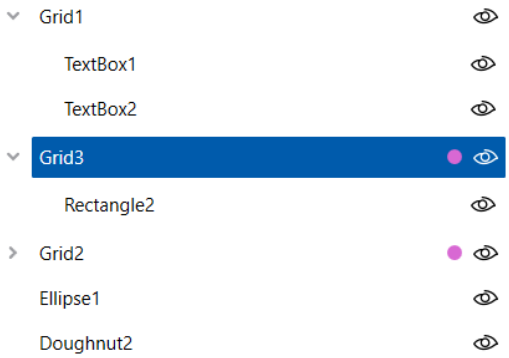
1. Open your project, in Thermo Humidity Gauge grid (Grid_GPS_Gauge_FlatTH04), click on Object List and select Grid2.



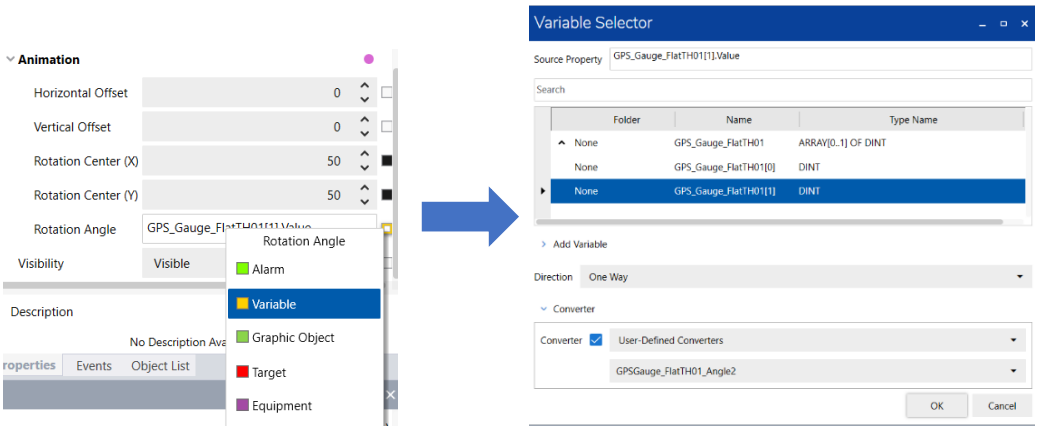
2. In Properties tab, select **Basic** > **Animation** > **Rotation Angle** and select the desired variable used for temperature from variable selector.



3. Select Grid3.



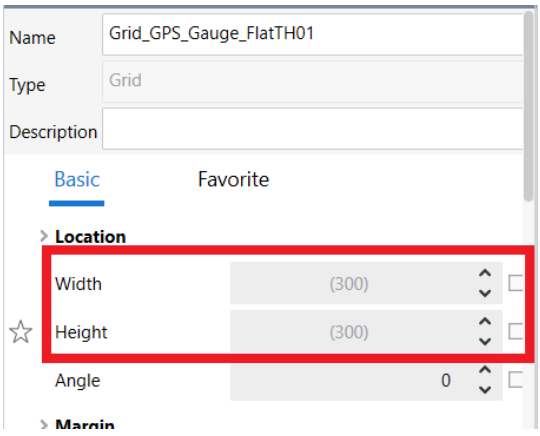
4. In Properties tab, select **Basic** > **Animation** > **Rotation Angle** and select the desired variable used for humidity from variable selector.



How to Resize Thermo Humidity Gauge

1. Select Screen (where Thermo Humidity Gauge is placed) and then select the Grid object (Grid_GPS_Gauge_FlatTH01).

2. In properties tab, change the Width and Height of the Grid object (Grid_GPS_Gauge_FlatTH01).



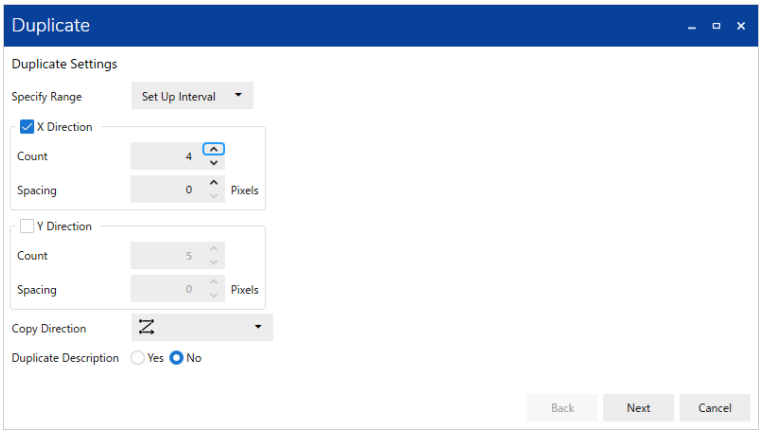
Note:

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

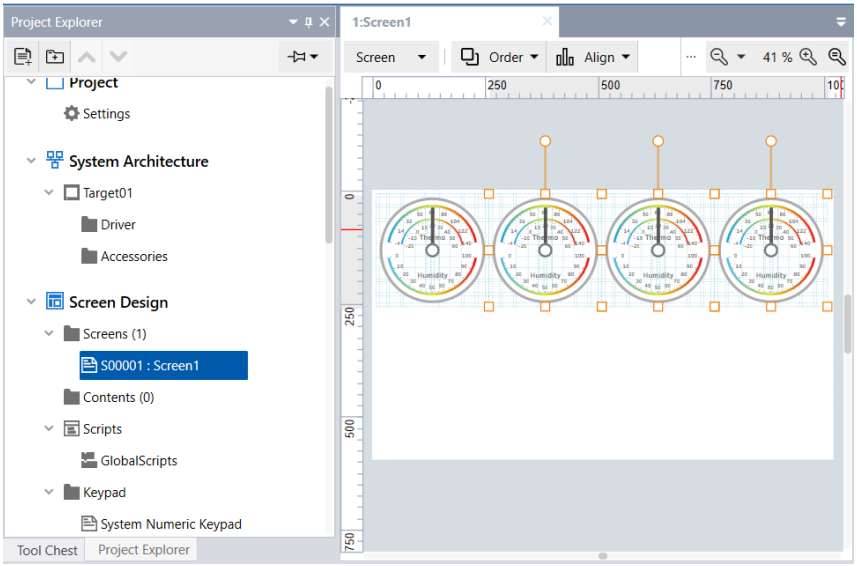
How to Duplicate Thermo Humidity Gauge

1. In screen, select the Grid object (Grid_GPS_Gauge_FlatTH01) 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 object (Grid_GPS_Gauge_FlatTH01) is duplicated.



Note:

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

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

- 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 Thermo Humidity Gauge 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.