

TUTORIAL

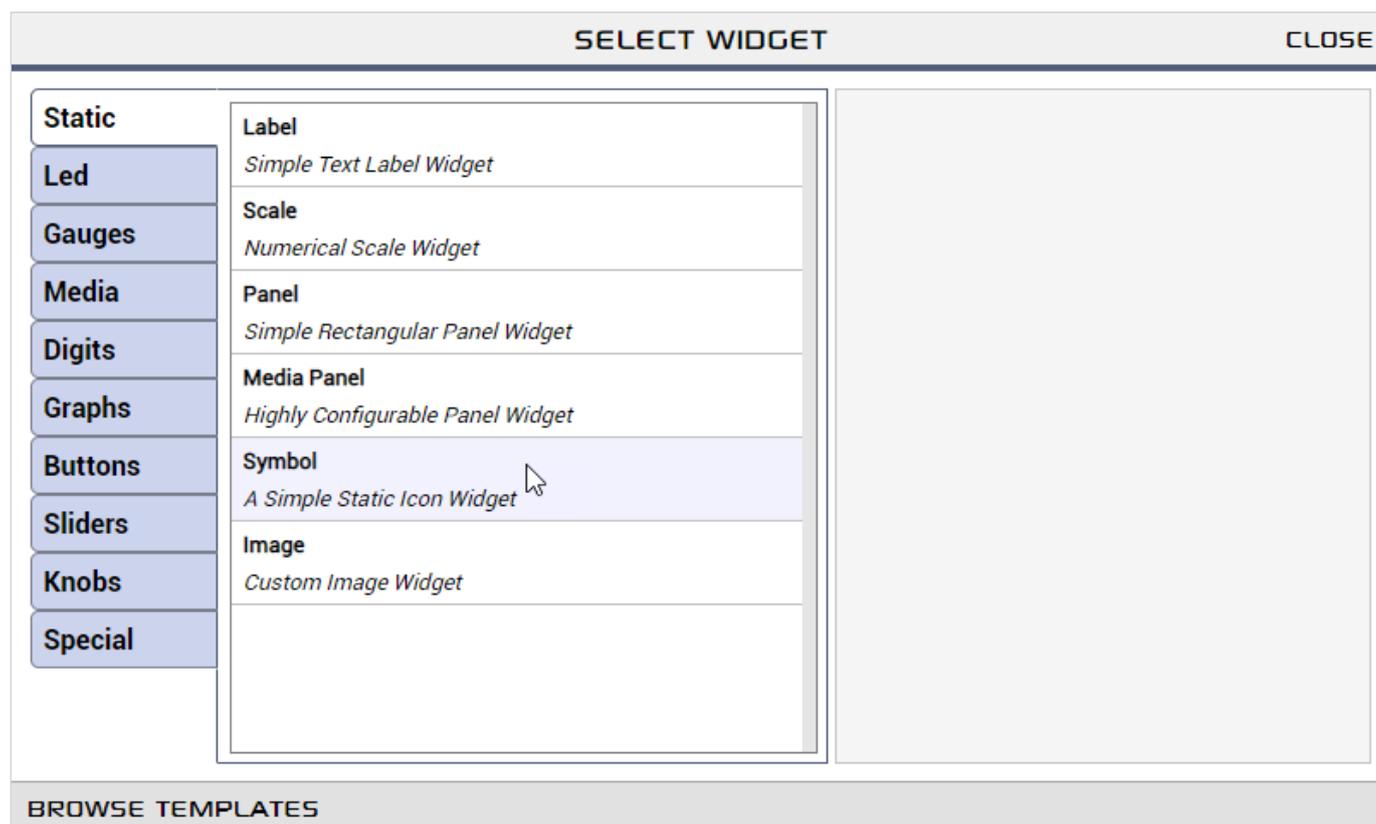
Design a Symbol Widget

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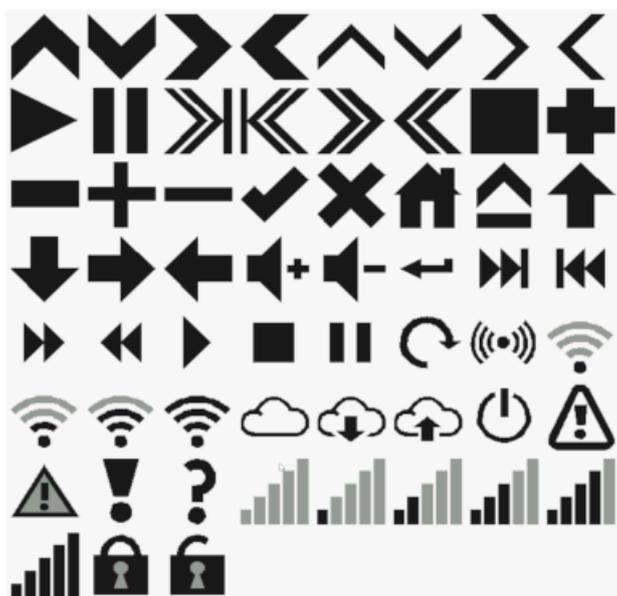
Introduction

The Symbol widget is a collection of common vector drawn symbols which can be set to any size and any colour.



The Symbol can be displayed on its own or with a Media Panel.

This tutorial requires basic knowledge about using the graphics editor. This includes adding widgets and modifying widget properties during design time. For more information regarding this, refer to the [Graphics Editor](#) manual.



Note

The Symbol widget is a static widget so it can only be modified at design time. If the displayed symbol needs to be changed dynamically, the Symbols widget provides this functionality.

Widget Properties

Size and Position

Left and Top

Position of a widgets can be changed by entering values for the *Left* and *Top* properties.

Left	60	
Top	31	

Alternatively, the widget can be positioned by simply clicking and dragging into the desired position.

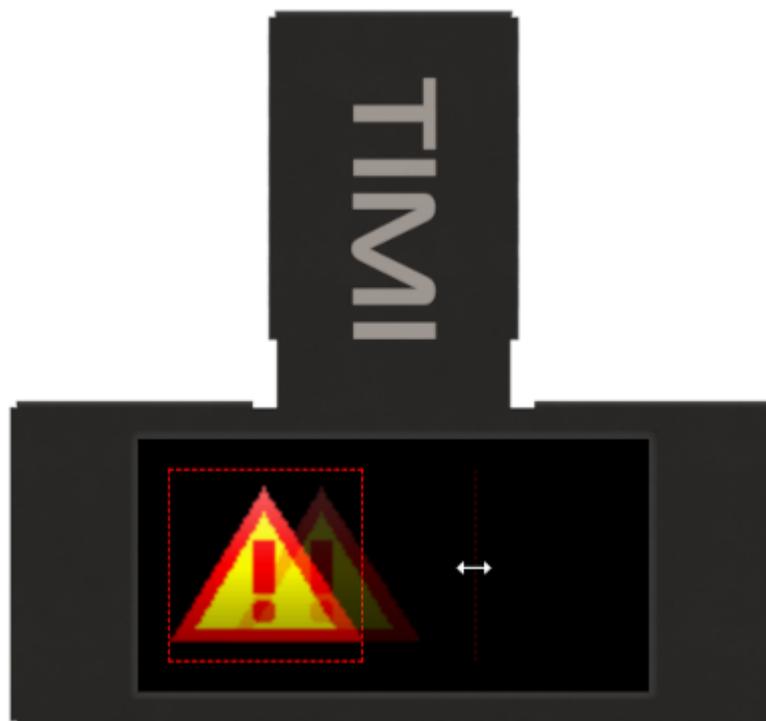
If the width or height of the Symbol widget is set to the maximum size of the display top or left dragging will not function.

Width and Height

For the Symbol widget, the size properties, *Width* and *Height*, can be changed by entering the value of a known width and Height in pixels.

Width	160	
Height	30	

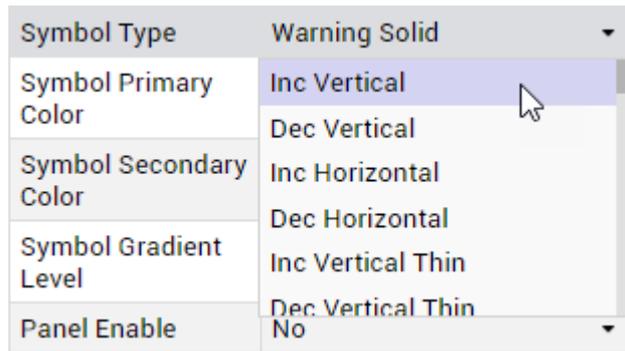
Or the width and height can be simply changed by dragging the red dotted widget outline to the required size.



Symbol

Type

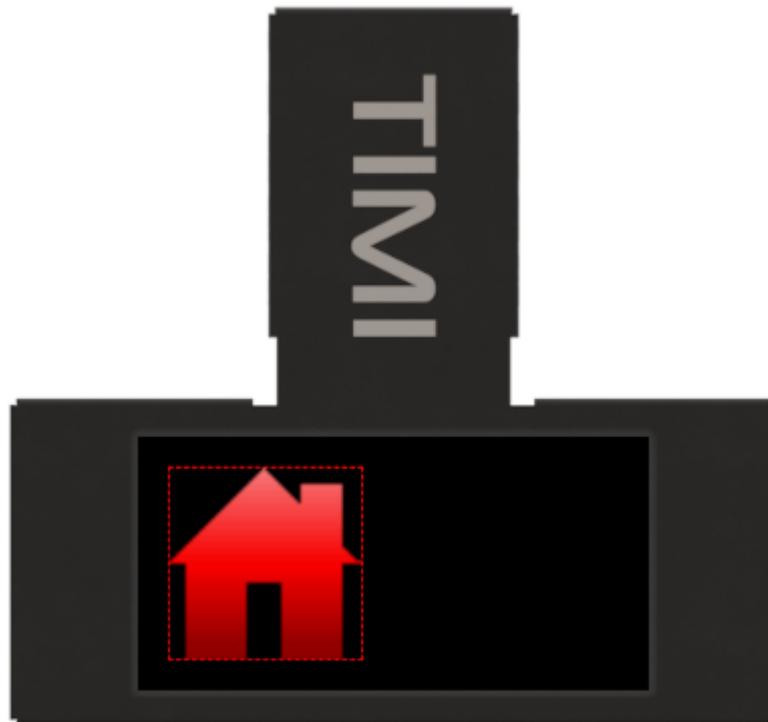
The Symbol Type can be chosen by clicking on the drop-down box.



Below is a list of symbols and their description

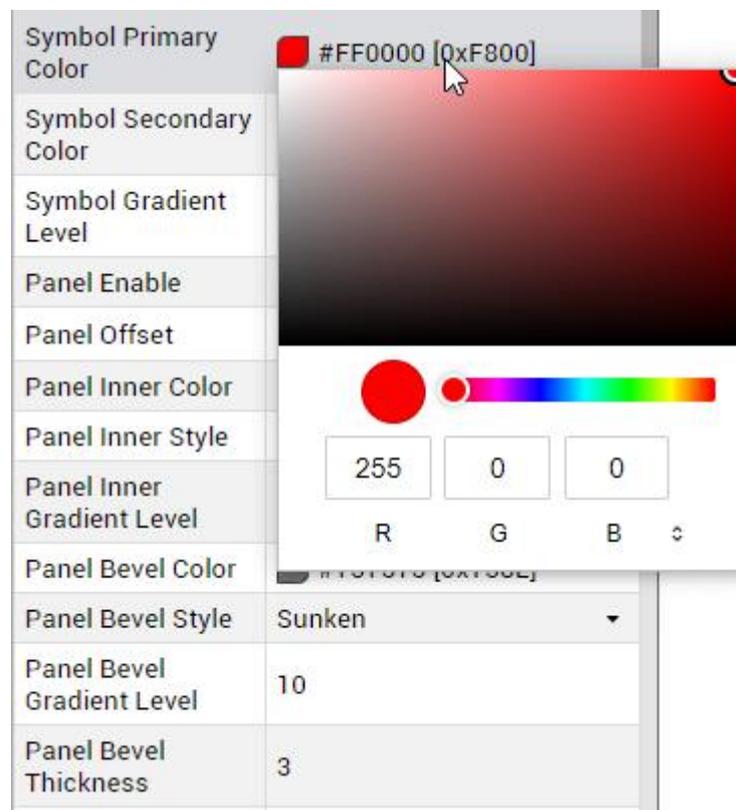
	Inc Vertical		Previous Slim
	Dec Vertical		Fast Forward Slim
	Inc Horizontal		Rewind Slim
	Dec Horizontal		Play Slim
	Inc Vertical Thin		Stop Slim
	Dec Vertical Thin		Pause Slim
	Inc Horizontal Thin		Back Round
	Dec Horizontal Thin		RFID
	Play		WiFi Off
	Pause		WiFi Low
	Next		WiFi Med
	Previous		WiFi Full
	Fast Forward		Cloud
	Rewind		Cloud Download
	Stop		Cloud Upload
	Plus		Power
	Minus		Warning Outline
	Plus Thin		Warning Solid
	Minus Thin		Exclamation Mark
	Tick		Question Mark
	Cross		Bar Graph 0
	Home		Bar Graph 20
	Eject		Bar Graph 40
	Arrow Up		Bar Graph 60
	Arrow Down		Bar Graph 80
	Arrow Right		Bar Graph 100
	Arrow Left		Lock Locked
	Volume Up		Lock Unlocked
	Volume Down		
	Back		
	Next Slim		

Home Symbol selected.

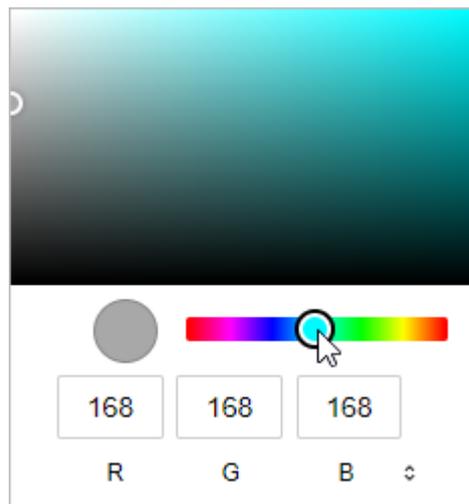


Primary Colour

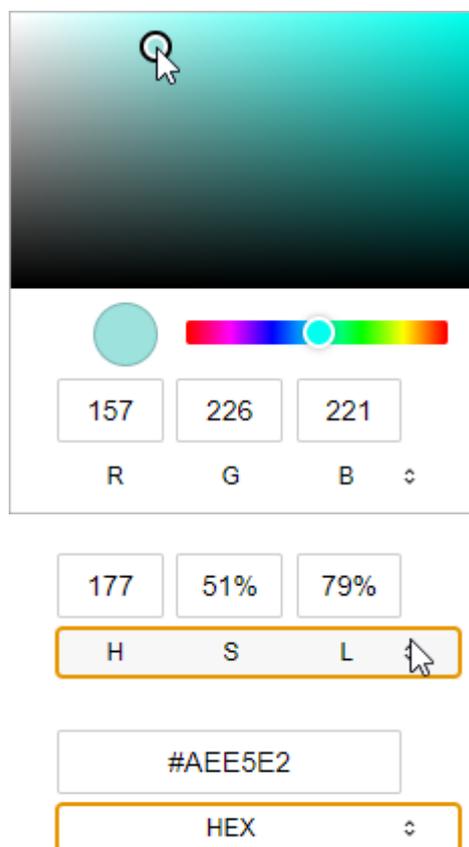
All symbols have a primary colour with some that will utilize a secondary colour. This can be altered by simply clicking on the Symbol Primary colour Property value and the Colour selector will appear.



When editing colour properties, a colour picker tool is provided. The tool can be use to select a base colour

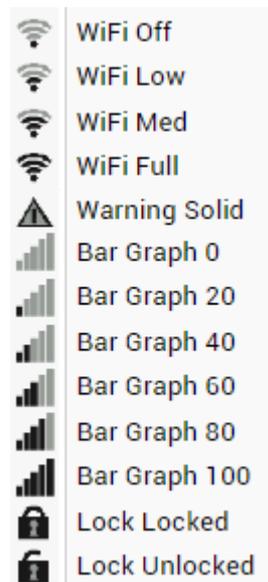


and the appropriate shade of that colour.

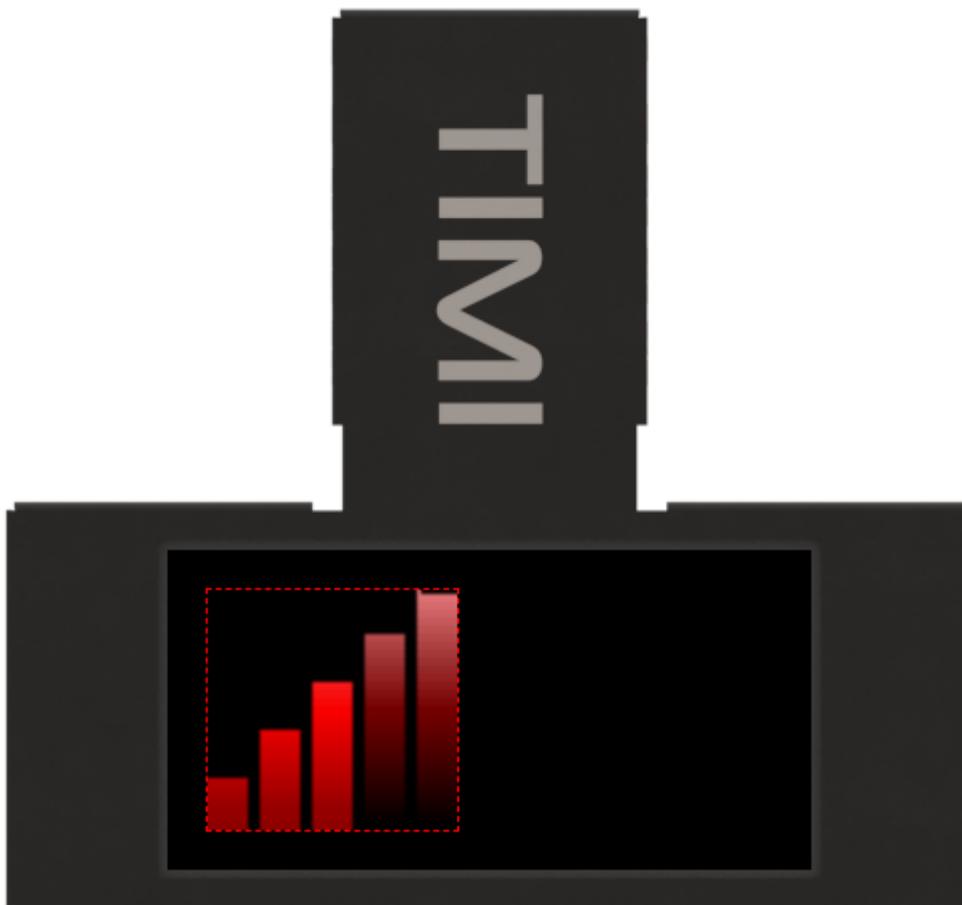


Secondary Colour

Some Symbol Types use a secondary colour which is adjustable by clicking on the Symbol Secondary Colour selector and choosing the colour in the same way as the Primary Colour property. These are the symbols which use a Secondary colour.



Bar Graph 60 with Secondary colour set to a darker red

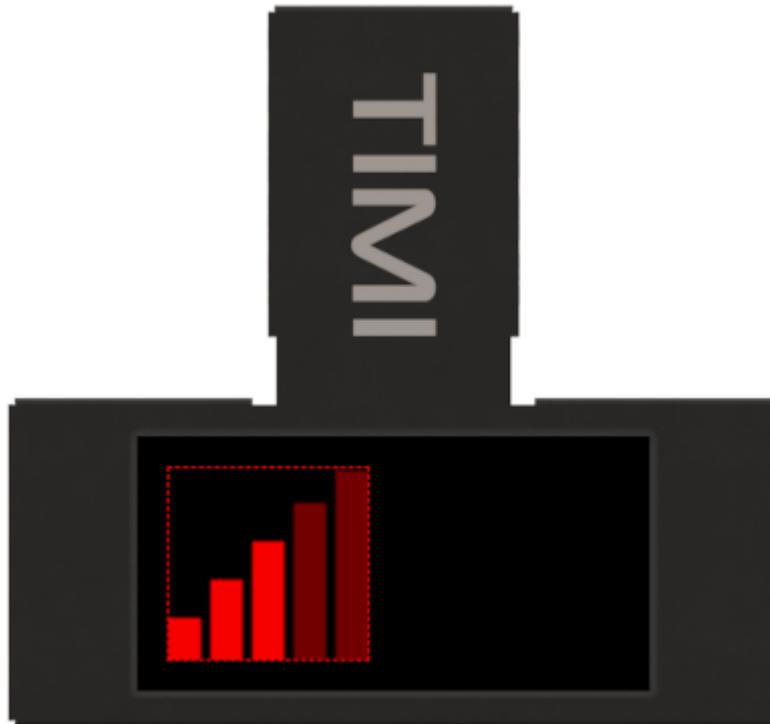


Gradient Level

Each symbol can be drawn as a solid colour symbol or with a gradient effect by adjusting the Symbol Gradient Level property.



Entering a value between 1 to 30 will adjust the gradient depth. Entering a 0 will turn all gradients off.



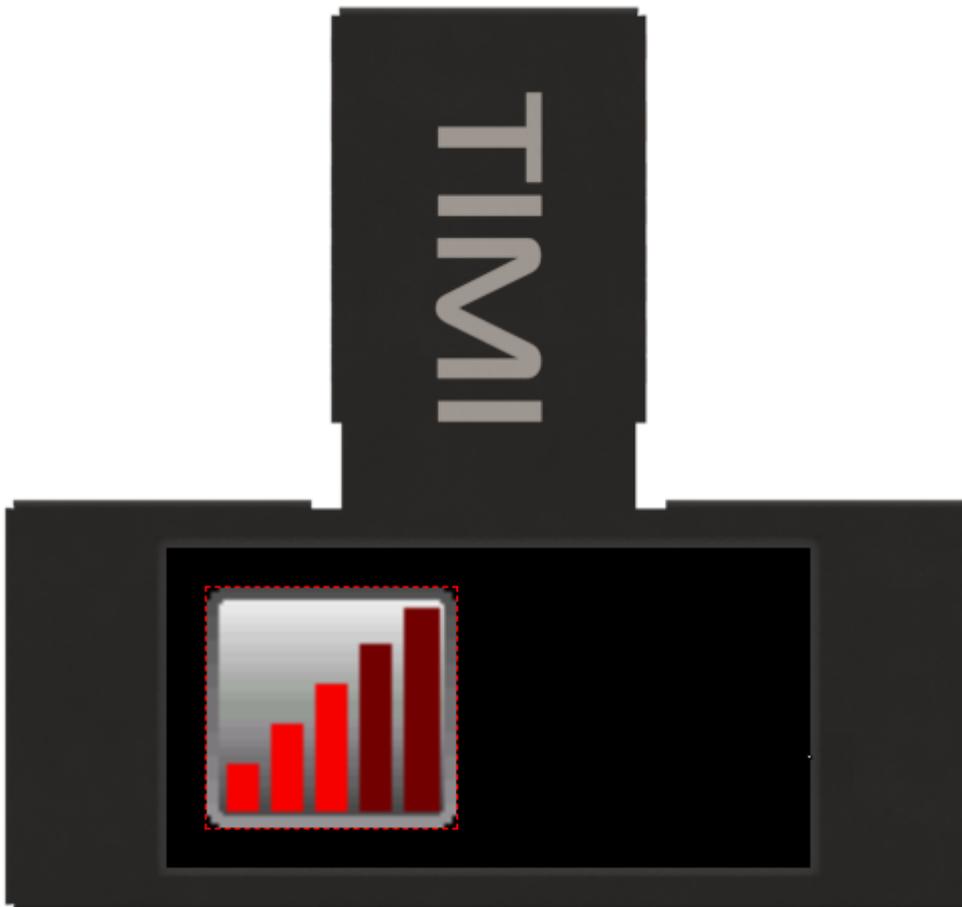
Panel

Enable

A symbol can be drawn with or without a panel.

Panel Enable	No
Panel Offset	Yes
Panel Inner Color	No

Choosing Yes will add a Media Panel behind the Symbol. The Panel is fully configurable in much the same way as the Media Panel widget. The Panel Size will be the Width & Height dimensions and the Symbol will be resized to fit.



Offset

The Panel Offset property allows you to offset the symbol from the Panels Bevel by the number of pixels entered.

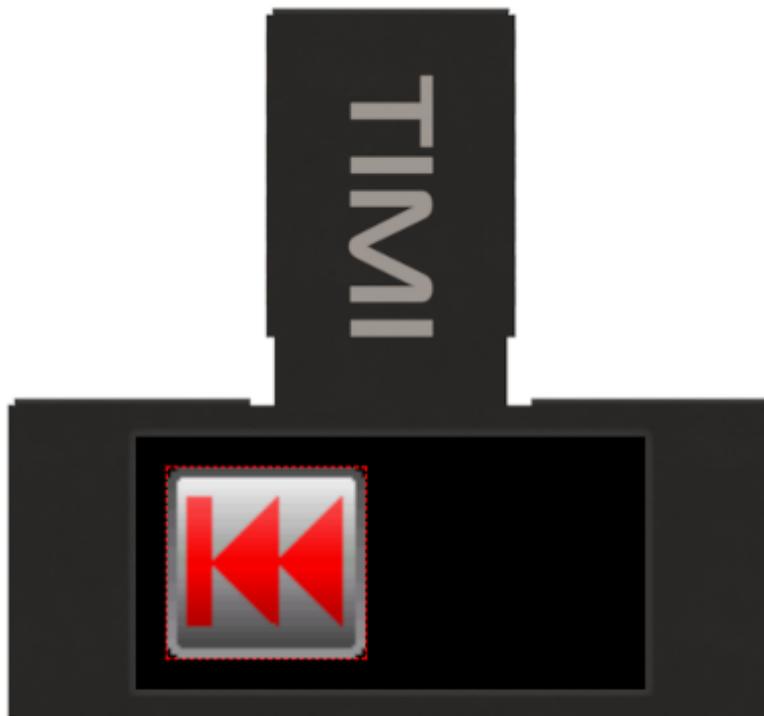
Panel Enable	Yes
Panel Offset	10
Panel Inner Color	#999999 [0x9CD3]

When a panel is enabled the Width and Height of the Symbol will be reduced by the Bevel Thickness of the Panel and the Panel Offset.



The Panel Offset property can also accept negative values to effectively make a small symbol larger inside a Panel.

Panel Enable	Yes
Panel Offset	-6
Panel Inner Color	#999999 [0x9CD3]



Inner

Colour

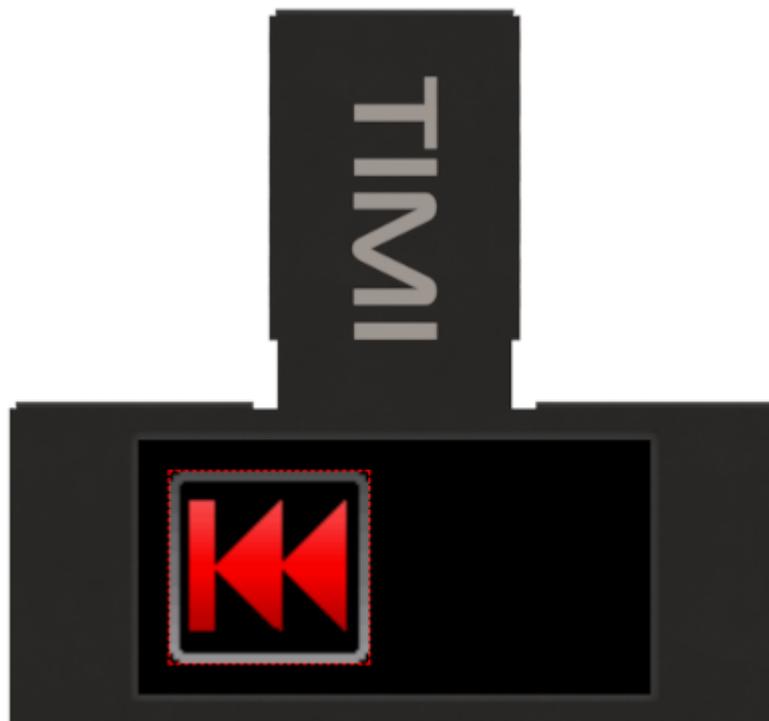
The Panel consists of 2 areas, the Panel (inner) and the Bevel (outer). Both of these areas can have a different colour and the colour of the Panel can be altered by simply clicking on the Panel Inner colour Property value and the Colour selector will appear. The Colour can be selected in the same way as the Symbol Primary colour property.

Style

The Panel uses gradients to create a raised or sunken effect. The Panel Gradient Level property sets how much of an effect this has from no effect (no gradient) to maximum. The Panel Inner Style property can be set by choosing Sunken, Raised or None.

Panel Inner Style	Raised
Panel Inner Gradient Level	Sunken
	Raised
Panel Bevel Color	None
Panel Bevel Style	Sunken

If None is selected, then the panel will not be drawn which makes it possible to use the Panel as a border or ring around the Symbol.



Gradient Level

The level of the gradient can be adjusted from 0 which is no gradient to 30 which is the maximum gradient level. This will change the depth of the Raised or Sunken effect.

Panel Inner Style	None
Panel Inner Gradient Level	25
Panel Bevel Color	#737373 [0x738E]

Bevel

Colour

The Panel Bevel colour property can be set in the same manner as the Panel Inner colour property by using the Colour selection tool.

Style

The Panel uses gradients to create a raised or sunken effect. The Panel Gradient Level property sets how much of an effect this has from no effect (no gradient) to maximum. The Panel Inner Style property can be set by choosing Sunken, Raised or None.

The Panel Bevel Style property can be set in the same manner as the Panel Inner Style property.

Panel Bevel Style	Sunken
Panel Bevel Gradient Level	Raised
Panel Bevel Thickness	3

There are only Sunken and Raised options for the Bevel as the Bevel is always drawn.

Gradient Level

The Panel Bevel Gradient property can be set in the same manner as the Panel Inner Gradient Level property.

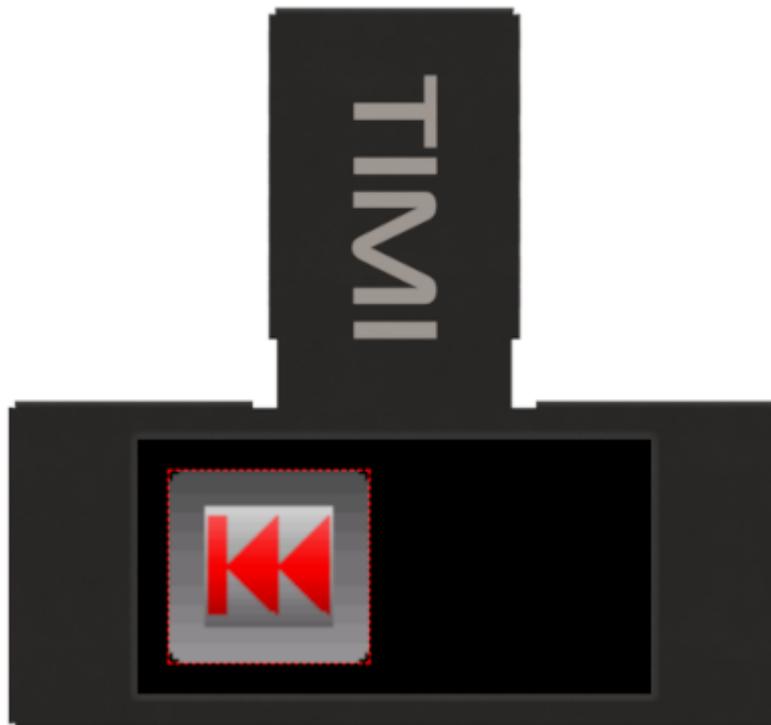
Panel Bevel Style	Sunken
Panel Bevel Gradient Level	10
Panel Bevel Thickness	3

Thickness

The Panel Bevel Thickness property adjusts the thickness of the outer edge (bevel).

Panel Bevel Gradient Level	10
Panel Bevel Thickness	5
Panel Top Left Corner Radius	4

Changing this property will have an impact on the Symbol size.



Corner Radius

Each corner of the Panel can have its own arc radius set and many shapes can be created.

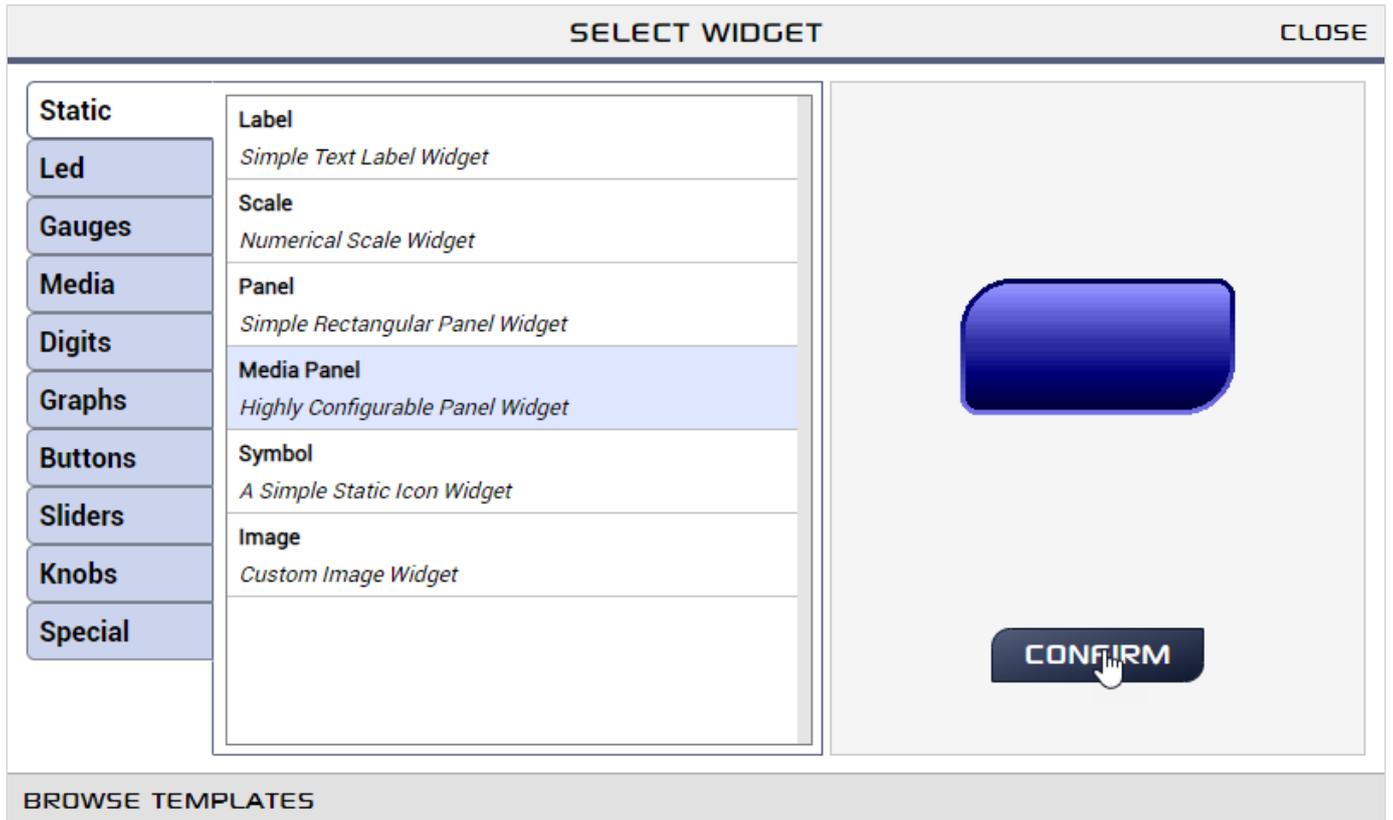
Panel Top Left Corner Radius	30	
Panel Top Right Corner Radius	30	
Panel Bottom Left Corner Radius	30	
Panel Bottom Right Corner Radius	30	



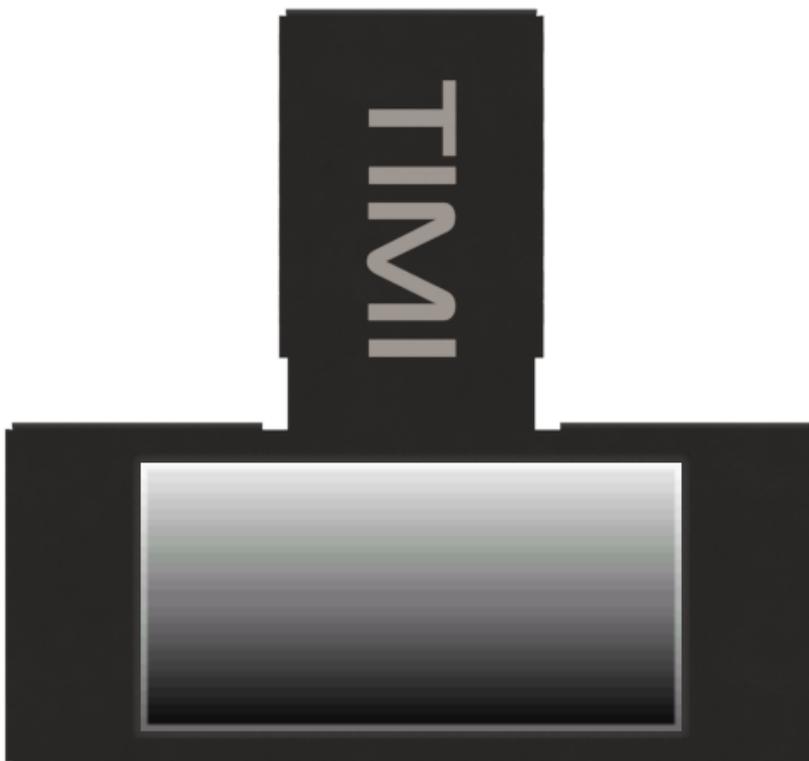
Demonstration

For this demonstration we will use a Symbol with a Panel, 2 Media Panels and 3 Label widgets to create a warning page. For instructions on how to add a widget, refer to this [discussion](#).

Click on Add Widget from the Graphics menu and select the Symbol Widget then click on CONFIRM as shown.

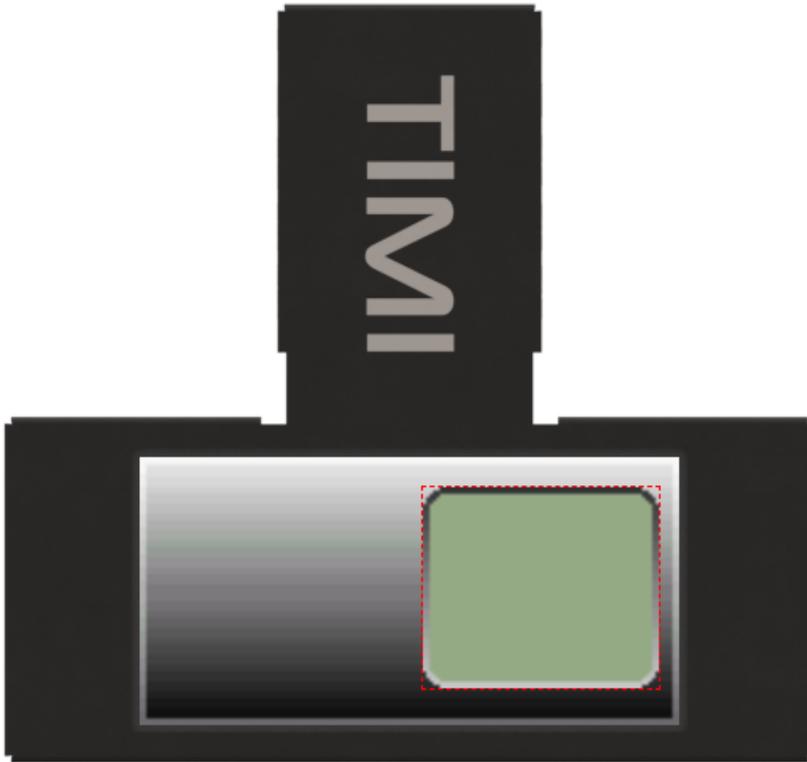


and set the properties as shown.



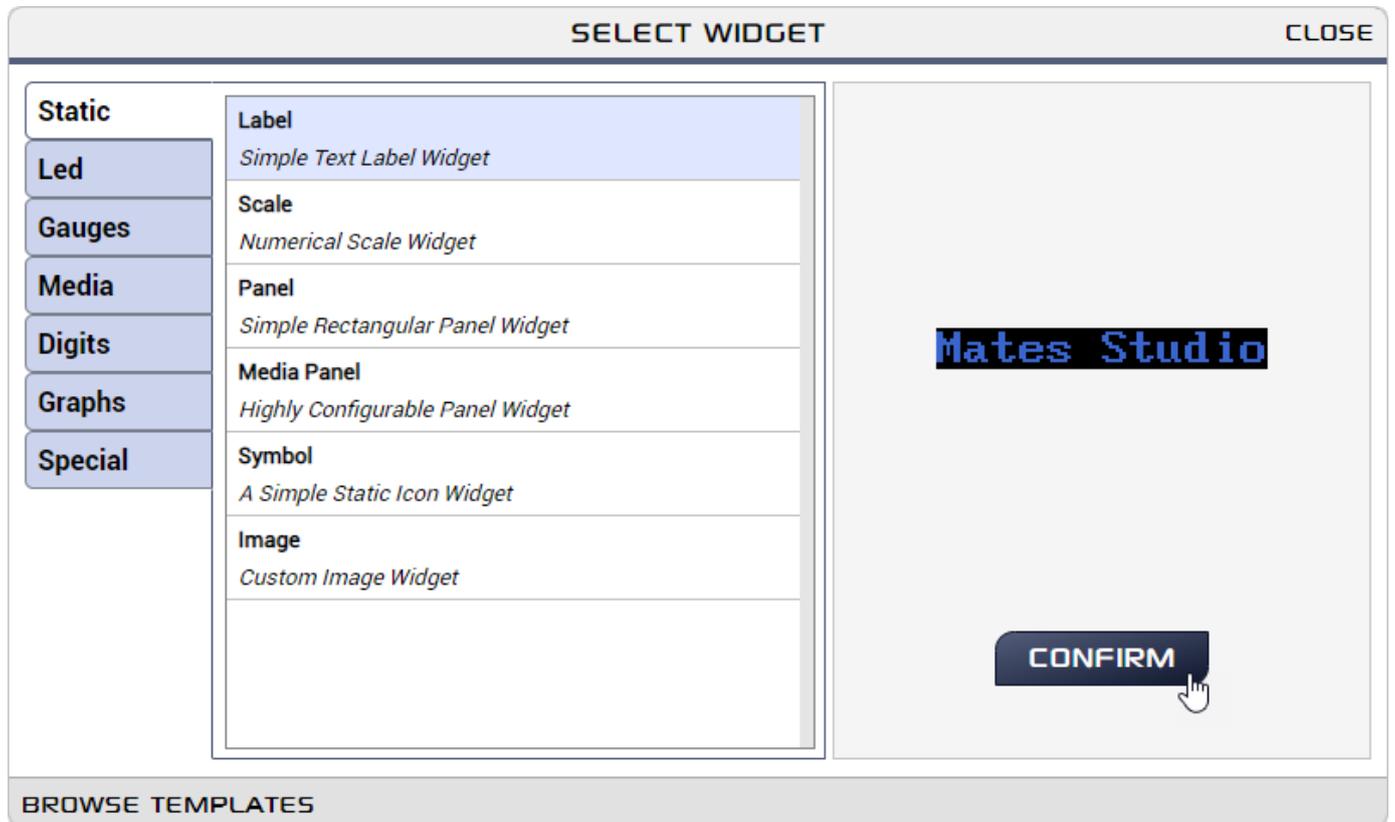
Property	Value
Name	MediaPanel0
Left	0
Top	0
Width	160
Height	80
Panel Color	#787878 [0x7BCF]
Panel Style	Raised
Panel Gradient Level	30
Bevel Color	#B0B0B0 [0xB596]
Bevel Style	Raised
Bevel Gradient Level	20
Bevel Thickness	2
Top Left Corner Radius	0
Top Right Corner Radius	0
Bottom Left Corner Radius	0
Bottom Right Corner Radius	0

Next, add another Media Panel widget and set the properties as shown.

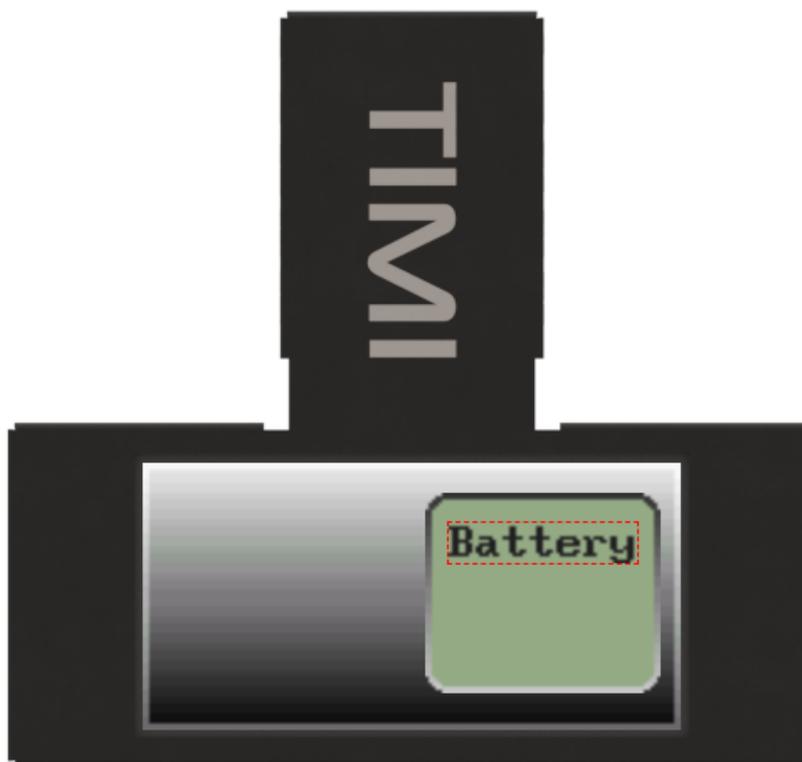


Property	Value
Name	MediaPanel1
Left	84
Top	9
Width	70
Height	60
Panel Color	 #9CA880 [0x9D50]
Panel Style	Raised
Panel Gradient Level	0
Bevel Color	 #828282 [0x8410]
Bevel Style	Sunken
Bevel Gradient Level	20
Bevel Thickness	2
Top Left Corner Radius	7
Top Right Corner Radius	7
Bottom Left Corner Radius	7
Bottom Right Corner Radius	7

Next, click on Add Widget from the Graphics menu and select the Label Widget then click on CONFIRM as shown.

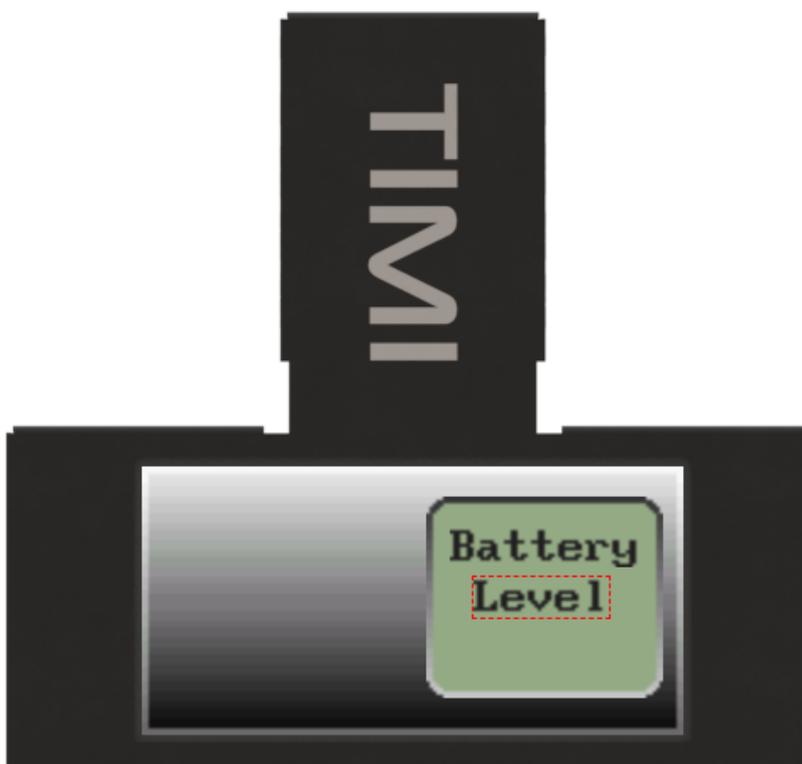


and set the properties as shown.



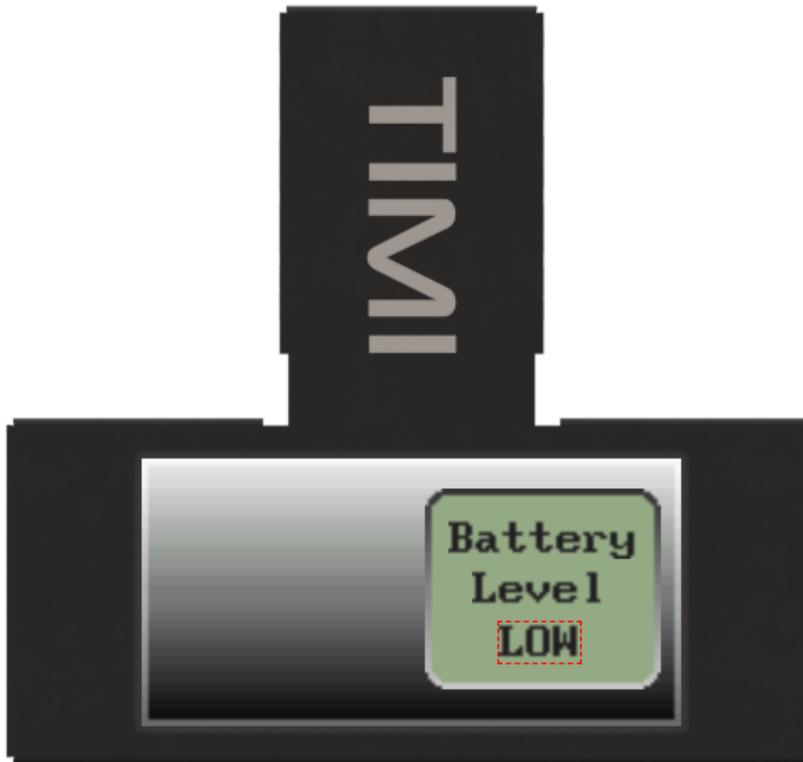
Property	Value
Name	Label0
Left	91
Top	18
Width	56
Height	12
Text	Battery
Font Style	Built-in FONT3 ▾
Font Size	1
Foreground Color	■ #212121 [0x2104]
Background Type	Opaque ▾
Background Color	■ #9CA880 [0x9D50]

Add another Label Widget and set the properties as shown.



Property	Value
Name	Label1
Left	98 ▾
Top	33
Width	40
Height	12
Text	Level
Font Style	Built-in FONT3 ▾
Font Size	1
Foreground Color	■ #212121 [0x2104]
Background Type	Opaque ▾
Background Color	■ #9CA880 [0x9D50]

Add another Label Widget and set the properties as shown.



Property	Value
Name	Label2
Left	106
Top	49
Width	24
Height	12
Text	LOW
Font Style	Built-in FONT3
Font Size	1
Foreground Color	■ #212121 [0x2104]
Background Type	Opaque
Background Color	■ #9CA880 [0x9D50]

Finally add a Symbol widget and set the properties as shown.



Property	Value
Name	Symbol0
Left	10
Top	9
Width	66
Height	61
Symbol Type	Warning Solid
Symbol Primary Color	■ #FF0000 [0xF800]
Symbol Secondary Color	■ #FFFF00 [0xFFE0]
Symbol Gradient Level	30
Panel Enable	Yes
Panel Offset	2
Panel Inner Color	■ #999999 [0x9CD3]
Panel Inner Style	Raised
Panel Inner Gradient Level	25
Panel Bevel Color	■ #737373 [0x738E]
Panel Bevel Style	Sunken
Panel Bevel Gradient Level	10
Panel Bevel Thickness	3
Panel Top Left Corner Radius	4
Panel Top Right Corner Radius	4
Panel Bottom Left Corner Radius	4
Panel Bottom Right Corner Radius	4