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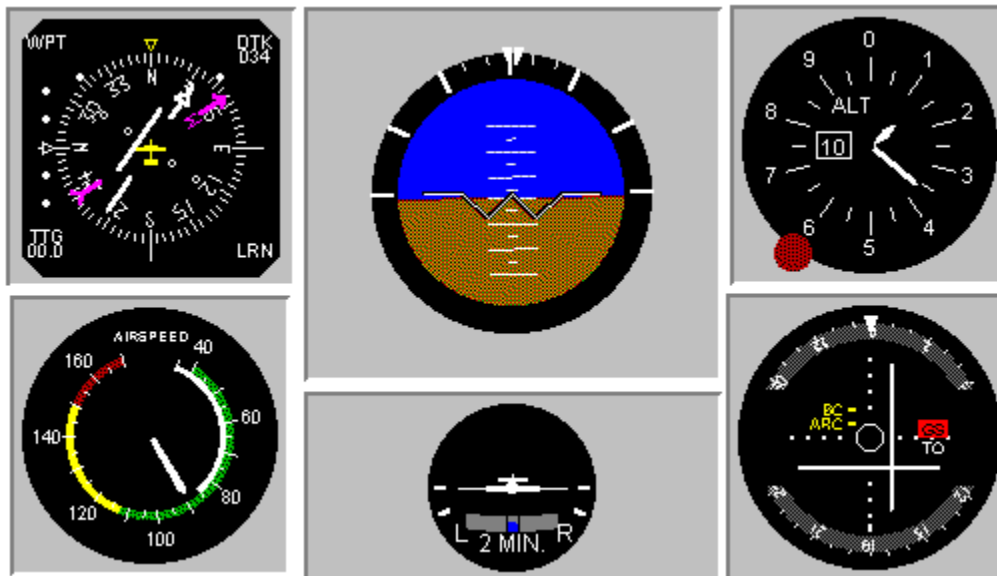
## AIRCRAFT INSTRUMENT CONTROL

[Properties](#)

[Events](#)

### Description:

Aircraft Instrument Controls display a variety of small airplane flight instruments including compass, heading indicator, altimeter, vertical speed indicator, airspeed indicator, horizontal situation indicator, artificial horizon, coordinated turn indicator, course indicator, Automatic Direction Finder, Radio Magnetic Indicator, and Omni-Bearing Indicator. The controls can be used as input controls when MouseControl is set to **TRUE**. The controls include bevels for a 3D appearance.



**Events:**

Change  
Click  
DbClick  
MouseDown  
MouseMove  
MouseUp  
Turn

## Properties:

ADFBearing	Height	OBIARCFlag
AirspeedVFE	HSIBearing	OBIBackCourse
AirspeedVMax	HSICompass	OBICourse
AirspeedVNE	HSICourseDelta	OBICourseDeviation
AirspeedVNO	HSICourseDeviation	OBIglideSlope
AirspeedVS0	HSICourseDisplay	OBIGSFlag
AirspeedVS1	HSICourseHeading	OBINAVFlag
AltBarometer	HSIDistance	OBIToFrom
AltBarometricPressure	HSIDistanceDisplay	OrdCourse
AutoRedraw	HSIGlideSlopeDelta	Pitch
BackColor	HSIGlideSlopeDeviation	Redraw
BackgroundPicture	HSINavigationSource	RMIBearing
Bank	HSISpeed	RMICompass
BevelInner	HSITime	TabIndex
BevelOuter	HSITimeSpeedDisplay	TabStop
BevelWidth	Inclinometer	Tag
BorderWidth	Index	Top
ClimbRateMax	Left	Turn
CompassStyle	MouseControl	Value
DisplayMode	MousePointer	Visible
Enabled	Name	Width
FontSize		



## AUTOMOBILE (CAR) GAUGE CONTROL

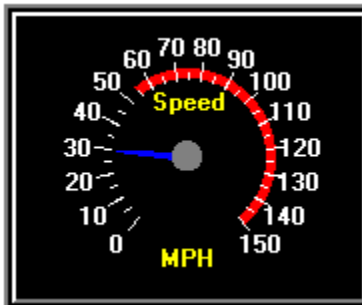
[Properties](#)

[Events](#)

### Description:

Car Gauge Instrument Controls display a variety of automobile instruments including tachometer, speedometer, fuel level, oil pressure, amp gauge, and water temperature. The controls can be used as inputs when MouseControl is set to **TRUE**. Additionally, they include bevels for a 3D appearance.

### Examples:



**Events:**

Change  
Click  
MouseDown  
MouseMove  
MouseUp

## Properties:

AutoRedraw	FontUnder	NeedleColor
BackgroundColor	FrameColor	OutlineAlign
BackgroundPicture	FramePicture	OutlineColor
BevelInner	FrameScaleX	OutlineTitle
BevelOuter	FrameScaleY	OutlineWidth
BevelWidth	FrameStyle	Redraw
BorderType	GaugeType	ShowDanger
BorderWidth	Height	ShowWarning
CaptionColor	HubColor	TabIndex
Danger	HubScale	TabStop
Delta	Index	Tag
Enabled	Left	TicColor
FontBold	Max	Top
FontItalic	Min	Value
FontName	MouseControl	Visible
FontSize	MousePointer	Warning
FontStrike	Name	Width



## **Global Majic Software, Inc.** **Instrumentation Custom Control Library**



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## GENERIC GAUGE (AGAUGE) CONTROL

[Properties](#)

[Events](#)

### **Description:**

The generic Gauge Control is a highly customizable gauge or meter control. Properties are provided to modify gauge scales, tics, needles, annulars, captions, border and background. The mouse can optionally be used to change needle values.

The properties which are used for sizing and positioning tics, annulars, needles, captions and hubs generally have a value between -1 and +1 which corresponds to the size of the control. These units are used as opposed to pixels or twips in order to simplify re-sizing the control at design time.

### **Scales:**

Scales are used to define the extent of the units displayed by the gauge, the location of the gauge center, and the gauge's start and stop angles. The examples below show various instruments with a wide range of start-stop angles, start-stop values, and scale positions. The control supports multiple scales as well.

### **Needles:**

As shown in the examples below, needles can be displayed in a variety of shapes and sizes. Properties are provided to modify the needle's style, length, width, color and associated scale. User defined needle shapes can be specified as demonstrated in the pitch and roll indicators. Multiple needles can be placed on a single gauge as shown below:

### **Tics:**

Tics are used to mark intervals on the instrument's face. Properties are provided to set the tic's style, start-stop values, interval, inner-outer radii, width, color, label positions, and associated scale.

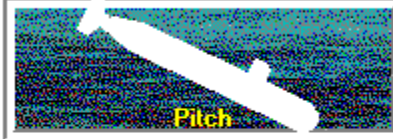
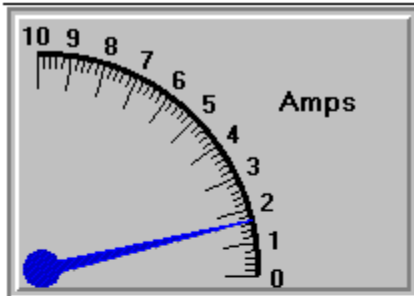
### **Annulars:**

Annulars are used for aesthetics as well as indicators of operating ranges. Properties are provided to modify the annular's start-stop values, inner-outer radii, color, and associated scale. Additionally, multiple annular regions may be placed on a single instrument.

### **Captions:**

The instrument can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labeling.

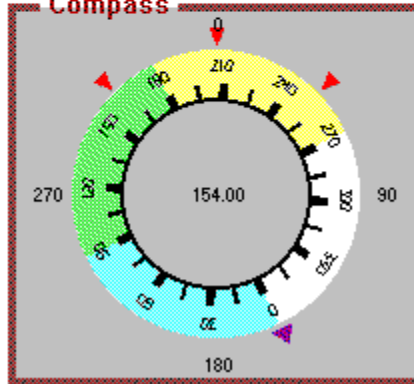
### **Examples:**



Stop Watch



Compass



**Events:**

Change  
Click  
GotFocus  
LostFocus  
MouseDown  
MouseMove  
MouseUp  
Turn

## Properties:

AnnularColor	FrameColor	Redraw
AnnularFloat	FramePicture	ScaleDirection
AnnularFloatOffset	FrameScaleX	ScaleID
AnnularID	FrameScaleY	ScaleMaxValue
AnnularInnerRadius	FrameStyle	ScaleMinValue
AnnularOuterRadius	Height	ScaleOriginX
Annulars	HubColor	ScaleOriginY
AnnularScaleID	HubID	Scales
AnnularStartValue	Hubs	ScaleStartAngle
AnnularStopValue	HubScale	ScaleStopAngle
AutoRedraw	HubScaleID	Shape
BackgroundColor	Index	TabIndex
BackgroundPicture	Left	TabStop
BevelInner	MouseControl	Tag
BevelOuter	MousePointer	TicColor
BevelWidth	Name	TicDeltaValue
BorderType	NeedleColor	TicFloat
BorderWidth	NeedleDigital	TicFloatOffset
Caption	NeedleDigitalColor	TicFontID
CaptionColor	NeedleDigitalDecimals	TicID
CaptionFontID	NeedleDigitalFontID	TicInnerRadius
CaptionID	NeedleDigitalX	TicLabel
Captions	NeedleDigitalY	TicLabelRadius
CaptionX	NeedleID	TicLabelRotated
CaptionY	NeedleLength	TicOuterRadius
Enabled	Needles	Tics
FontBold	NeedleScaleID	TicScaleID
FontDialog	NeedleShape	TicStartValue
FontID	NeedleStyle	TicStopValue
FontItalic	NeedleValue	TicStyle
FontName	NeedleWidth	TicWidth
Fonts	OutlineAlign	Top
FontSize	OutlineColor	Visible
FontStrike	OutlineTitle	Width
FontUnder	OutlineWidth	



# KNOB CONTROL

Properties

Events

## Description:

The Knob Control is a highly customizable knob or dial control. Properties are provided to modify knob style, mark, scale, tics, annulars, captions, border and background. The mouse may optionally be used to change knob values. Additionally, there are snap and multiturn functions.

The properties which are used for sizing and positioning tics, annulars, needles, captions and hubs generally have values between -1 and +1 which correspond to the size of the control. These units are used as opposed to pixels or twips in order to simplify re-sizing the control at design time.

## Scale:

Scale is used to define the extent of the units displayed on the knob, the location of the knob center, and the knob's start and stop angles. The examples below show various instruments with a wide range of start-stop angles, start-stop values, and scale positions.

## Knobs:

As shown in the examples below, there are several styles of knobs. Properties are provided to modify the knob's style, outer radii, width, and color. Additionally, user defined knob shapes may be specified.

## Mark:

Each knob may be adorned with a single mark. Properties are provided to modify the mark's style, inner-outer radii, width, and color. Additionally, user defined mark shapes may be incorporated into the control.

## Tics:

Tics are used to mark intervals on the control face. Properties are provided to set the tic's style, start-stop values, interval, inner-outer radii, width, color, and label positions. The examples below indicate the flexibility provided with the tic properties.

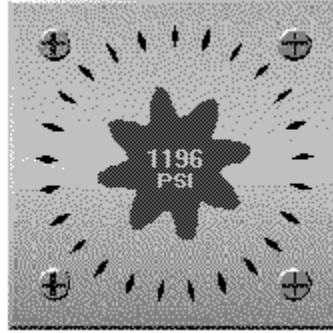
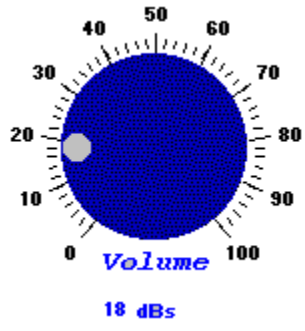
## Annulars:

Annulars are used for aesthetics as well as indicators of operating ranges. Properties are provided to modify annular's start-stop values, inner-outer radii, and color. Multiple annular regions can be placed on a single control.

## Captions:

The control can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labeling.

## Examples:



**Events:**

Click  
DragDrop  
DragOver  
GotFocus  
KeyDown  
KeyPress  
KeyUp  
LostFocus  
MouseDown  
MouseMove  
MouseUp  
Turn



## Properties:

AnnularColor	FontItalic	Name
AnnularID	FontName	OutlineAlign
AnnularInnerRadius	Fonts	OutlineColor
AnnularOuterRadius	FontSize	OutlineTitle
Annulars	FontStrike	OutlineWidth
AnnularStartValue	FontUnder	Redraw
AnnularStopValue	FrameColor	ScaleDirection
AutoRedraw	FramePicture	ScaleMaxValue
BackgroundColor	FrameScaleX	ScaleMinValue
BackgroundPicture	FrameScaleY	ScaleOriginX
BevelInner	FrameStyle	ScaleOriginY
BevelOuter	Height	ScaleStartAngle
BevelWidth	Index	ScaleStopAngle
BorderType	KnobColor	TabIndex
BorderWidth	KnobMultiTurn	TabStop
Caption	KnobMultiTurnValue	Tag
CaptionColor	KnobPicture	TicColor
CaptionFontID	KnobRadius	TicDeltaValue
CaptionID	KnobSnap	TicFontID
Captions	KnobSnapIncrement	TicID
CaptionX	KnobStyle	TicInnerRadius
CaptionY	KnobUserDefined	TicLabel
Digital	KnobValue	TicLabelRadius
DigitalColor	Left	TicOuterRadius
DigitalDecimals	MarkColor	Tics
DigitalFontID	MarkInnerRadius	TicStartValue
DigitalX	MarkOuterRadius	TicStopValue
DigitalY	MarkStyle	TicStyle
Enabled	MarkUserDefined	TicWidth
FontBold	MarkWidth	Top
FontDialog	MouseControl	Visible
FontID	MousePointer	Width



# LED CONTROL

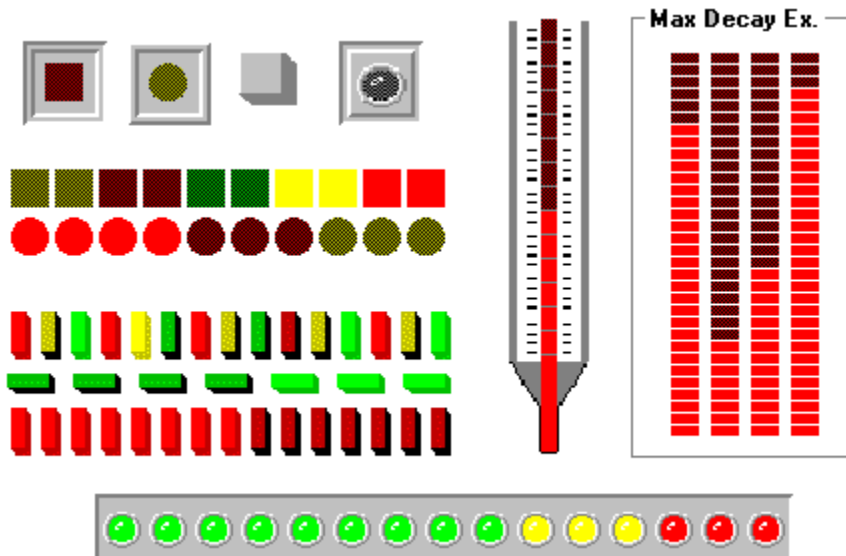
Properties

Events

## Description:

This control displays a variety of LED styles including rectangular, circular, and user supplied bitmaps. The control can display a single LED as an on/off indicator or it may be configured as an array of horizontal or vertical LEDs to indicate an array of on/off indicators (Bitwise Mode) or a gauge or linear meter (Value Mode). The mouse can be used for input when the MouseControl property is set to **TRUE**. The control includes bevels for a 3D appearance.

## Examples:



**Events:**

Click  
GotFocus  
LostFocus  
MouseDown  
MouseMove  
MouseUp

## Properties:

AutoRedraw	LEDColor	OffPictureRed
AutoSize	LEDHeight	OffPictureYellow
BackColor	LEDIndex	OnPictureGreen
BackgroundPicture	LEDSep	OnPictureRed
BevelInner	LEDStatus	OnPictureYellow
BevelOuter	LEDStyle	Orientation
BevelWidth	LEDWidth	Redraw
BorderHorizontal	Left	TabIndex
BorderVertical	MaxDecay	TabStop
BorderWidth	Mode	Tag
DecayRate	MouseControl	Top
Direction	Name	Value
Enabled	NumLEDs	Visible
Height	OffPictureGreen	Width
Index		



## LINEAR GAUGE (LGAUGE) CONTROL

[Properties](#)

[Events](#)

### Description:

The generic linear gauge control is a highly customizable gauge or slider control. Properties are provided to modify the gauge's scales, tics, pointers, bands, captions, border and background. The mouse can optionally be used to change pointer values.

### Scales:

Scales are used to define the extent of the units displayed by the gauge, the location of the gauge center, and the gauge's start and stop positions. Multiple scales are supported.

### Pointers:

Pointers can be displayed in a variety of shapes and sizes. Properties are used to modify the pointers's style, size, width, color and associated scale. Multiple pointers can be placed on a single gauge.

### Tics:

Tics are used to mark intervals on the gauge's face. Properties are used to set the tic's style, start-stop values, interval, inner-outer positions, width, color, label positions, and associated scale.

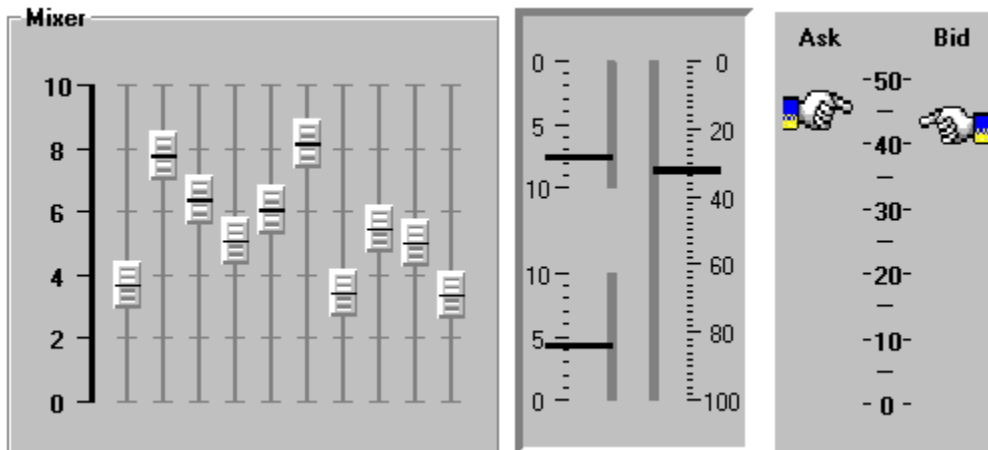
### Bands:

Bands are used for aesthetics as well as indicators of operating ranges. Properties are provided to modify the band's start-stop values, inner-outer positions, color, and associated scale. Multiple bands can be placed on a single gauge.

### Captions:

The gauge can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labeling.

### Examples:



**Events:**

Change  
Click  
DragDrop  
DragOver  
GotFocus  
KeyDown  
KeyPress  
KeyUp  
LostFocus  
MouseDown  
MouseMove  
MouseUp  
Slide

## Properties:

AutoRedraw	Fonts	PointerValue
BackColor	FontSize	PointerWidth
BackPicture	FontStrike	Redraw
BandColor	FontUnder	ScaleDirection
BandID	Height	ScaleID
BandInner	Index	ScaleMax
BandOuter	Left	ScaleMin
BandPicture	MousePointer	ScalePositionStart
Bands	Name	ScalePositionStop
BandScaleID	Orientation	Scales
BandShape	PointerColor	TabIndex
BandStart	PointerDigital	TabStop
BandStop	PointerDigitalColor	Tag
BandStyle	PointerDigitalDecimals	TicColor
BevelInner	PointerDigitalFontID	TicDelta
BevelOuter	PointerDigitalX	TicFontID
BevelWidth	PointerDigitalY	TicID
BorderWidth	PointerID	TicInner
Caption	PointerInner	TicLabelOn
CaptionColor	PointerMouseControl	TicLabelPosition
CaptionFontID	PointerOuter	TicOuter
CaptionID	PointerPicture	Tics
Captions	Pointers	TicScaleID
CaptionX	PointerScaleID	TicShape
CaptionY	PointerShape	TicStart
Enabled	PointerSnap	TicStop
FontBold	PointerSnapIncrement	TicStyle
FontDialog	PointerStart	TicWidth
FontID	PointerStop	Top
FontItalic	PointerStyle	Visible
FontName	PointerType	Width



## ODOMETER CONTROL

[Properties](#)

[Events](#)

### Description:

The Odometer Control displays a simple odometer which has properties for font control, optional reset button, number of digits and number of decimal values. If a reset button is desired, the mouse may be used to reset the odometer. The control includes bevels for a 3D appearance.





**Events:**

Click  
GotFocus  
LostFocus  
MouseDown  
MouseMove  
MouseUp  
Reset

## Properties:

BackColor	FontItalic	ResetButton
BevelInner	FontName	ResetPicture
BevelOuter	FontSize	TabIndex
BevelWidth	FontStrike	TabStop
BorderWidth	FontUnder	Tag
Decimals	Height	Top
DigitColor	Index	Value
Digits	Left	Visible
Enabled	MousePointer	WheelColor
FontBold	Name	Width



## PERCENTAGE INDICATOR CONTROL

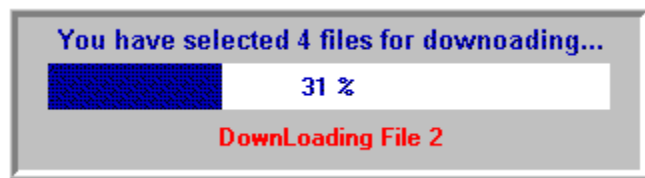
[Properties](#)

[Events](#)

### Description:

The Percentage Indicator Control can quickly be configured to display percentage bars (horizontal or vertical), ellipses or pre-defined "tanks". Additionally, a user-defined polygon may be used. The display can be filled in a linear or radial (pie) fashion - forward or backward. Bitmaps or colors may be utilized to define the *ON* and *OFF* regions of the display. Percentages are calculated manually or automatically.

### Example:



**Events:**

Change  
Click  
GotFocus  
LostFocus  
MouseDown  
MouseMove  
MouseUp

## Properties:

AutoRedraw	Enabled	OffPicture
BackColor	FontBold	OnColor
BackPicture	FontDialog	OnPicture
BarBorder	FontID	Orientation
BarInner	FontItalic	Percent
BarOuter	FontName	PercentColor
BevelInner	Fonts	PercentFontID
BevelOuter	FontSize	PercentStyle
BevelWidth	FontStrike	Redraw
BorderWidth	FontUnder	Shape
Caption	Height	ShapeStyle
CaptionColor	Index	TabIndex
CaptionFontID	Left	TabStop
CaptionID	Max	Tag
Captions	Min	Top
CaptionX	MouseControl	Value
CaptionY	MousePointer	Visible
Direction	Name	Width
DisplayMode	OffColor	

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## SELECTOR CONTROL

Properties

Events

### Description:

This control is a highly customizable selector switch. Properties are provided to modify the knob and mark styles, selections, line, offsets, captions, border and background. The mouse may optionally be used to change selector settings.

### Selections:

Each switch may have several possible selections. The caption, color, alignment, and offset of each selection is controlled by the user. Additionally, there are automatic features that define the control with minimal work required.

### Lines and Offsets:

The control's lines are controlled by the user. Properties are available to change line's inner radius and thickness as well as whether or not lines are visible. Offsets, on the other hand, may be controlled by either the control or the user. The length and angle of each offset can be set.

### Knob:

There are several styles of knobs that may be used in the selector switch control. Properties are provided to modify the knob's style, inner-outer radii, width, and color. Additionally, user defined shapes may be specified.

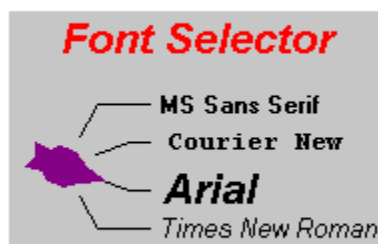
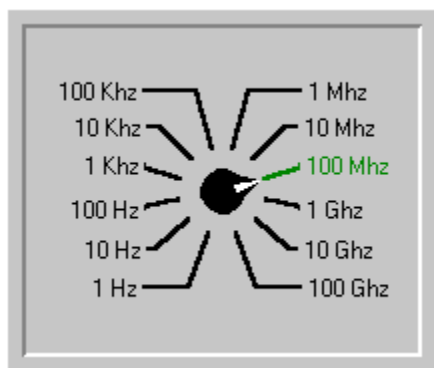
### Mark:

Each knob may be adorned with a single mark. Properties are provided to modify the mark's style, inner-outer radii, width, and color. Additionally, user defined mark shapes may be incorporated into the control.

### Captions:

The control can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labeling. These captions are in no way related to the captions defined for each selection.

### Examples:



**Events:**

Change  
Click  
GotFocus  
KeyDown  
KeyPress  
KeyUp  
LostFocus  
MouseDown  
MouseMove  
MouseUp



## Properties:

AutoAlign	FontName	MarkStyle
AutoAngle	Fonts	MarkUserDefined
AutoAngleConfine	FontSize	MarkWidth
AutoOffset	FontStrike	MouseControl
AutoOffsetDistance	FontUnder	MousePointer
AutoOffsetStyle	FrameColor	Name
AutoRadius	FramePicture	OutlineAlign
AutoStartAngle	FrameScaleX	OutlineColor
AutoStopAngle	FrameScaleY	OutlineTitle
BackgroundColor	FrameStyle	OutlineWidth
BackgroundPicture	Height	SelectionAlign
BevelInner	Highlight	SelectionAngle
BevelOuter	HighlightColor	SelectionCaption
BevelWidth	Index	SelectionColor
BorderType	KnobColor	SelectionFontID
BorderWidth	KnobOriginX	SelectionID
Caption	KnobOriginY	SelectionOffsetX
CaptionColor	KnobRadius	SelectionOffsetY
CaptionFontID	KnobStyle	SelectionRadius
CaptionID	KnobUserDefined	Selections
Captions	Left	TabIndex
CaptionX	LineDisplay	TabStop
CaptionY	LineInnerRadius	Tag
Enabled	LineThickness	Top
FontBold	MarkColor	Value
FontDialog	MarkInnerRadius	Visible
FontID	MarkOuterRadius	Width
FontItalic		



## SLIDER CONTROL

Properties

Events

### Description:

The Slider Custom Control is highly versatile and customizable. It was designed to allow the user to easily create any control, gauge, meter, etc. that incorporates a sliding mechanism in its functioning. The control is equipped with properties to change the On/Off characteristics of the sliding bar, the background, the tic marks, and the knob handle. Additionally, properties have been included to control both direction (forward or backward) and orientation (vertical or horizontal).

### Bars:

The slider bar properties allow the user to manipulate the On/Off characteristics of the slider separately. The user can either use a color or a bitmap to fill the *ON* or *OFF* bar area. Also, the width, border, and position of the bar can be controlled through the properties.

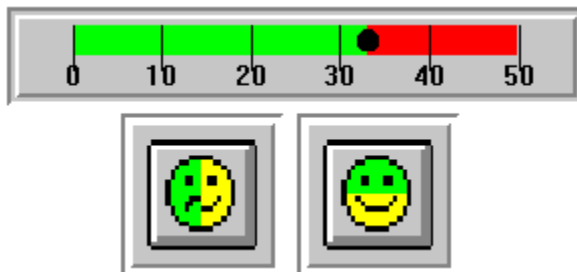
### Knobs:

There are also properties available to manipulate a knob. Knob properties exist for changing the scaling, offset, color, shape, and bitmap

### Tics:

Tics are used to mark intervals on the instrument's face. Properties are provided to set the tic's style, start-stop values, interval, inner-outer positions, width, color, and label positions.

### Example:



**Events:**

Change  
Click  
DragDrop  
DragOver  
GotFocus  
KeyDown  
KeyPress  
KeyUp  
LostFocus  
MouseDown  
MouseMove  
MouseUp

## Properties:

AutoRedraw	FontBold	OnPicture
BackColor	FontDialog	Orientation
BackPicture	FontID	Redraw
BarBorder	FontName	Shape
BarInner	Fonts	ShapeStyle
BarOuter	FontSize	Snap
BevelInner	FontStrike	SnapIncrement
BevelOuter	FontUnder	TabIndex
BevelWidth	Height	TabStop
BorderWidth	Index	Tag
Caption	KnobColor	TicColor
CaptionColor	KnobOffset	TicDelta
CaptionFontID	KnobPicture	TicFontID
CaptionID	KnobStyle	TicID
Captions	KnobXScale	TicInner
CaptionX	KnobYScale	TicLabelOn
CaptionY	Left	TicLabelPosition
Digital	Max	TicOuter
DigitalColor	Min	Tics
DigitalDecimals	MouseControl	TicStart
DigitalFontID	MousePointer	TicStop
DigitalX	Name	Top
DigitalY	OffColor	Value
Direction	OffPicture	Visible
Enabled	OnColor	Width
FontItalic		



## TOGGLE CONTROL

[Properties](#)

[Events](#)

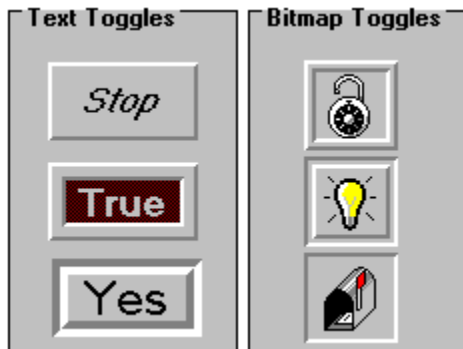
### Description:

The Toggle Switch Control is a TRUE/FALSE, YES/NO or ON/OFF indicator. The control displays captions or pictures to represent the toggle state depending on the control's value. The control is capable of playing wave files to indicate the switch turning *ON* or *OFF*. It includes bevels for a 3D appearance and blinking capability to draw attention to the control. It also has a built in timed shut-off and blinking capability.

### Remarks:

Wave files used with the control will **not** be stored in the control like the bitmap files. Therefore, all wave files need to accompany your application. Be careful with using many timers and blinking controls on a single form because Windows has a limited number of timer handles.

### Examples:



**Events:**

Click  
DragDrop  
GotFocus  
LostFocus  
MouseDown  
MouseMove  
MouseUp

## Properties:

AutoSize	Left	OnX
BackColor	MouseControl	OnY
BevelInner	MousePointer	Outline
BevelOuter	Name	OutlineColor
BevelWidth	OffBackColor	PushPicture
BlinkMode	OffCaption	PushX
BlinkRate	OffForeColor	PushY
BorderWidth	OffPicture	Sound
Enabled	OffWave	TabIndex
FontBold	OffX	TabStop
FontItalic	OffY	Tag
FontName	OnBackColor	Top
FontSize	OnCaption	TwoState
FontStrike	OnForeColor	Value
FontUnder	OnPicture	Visible
Height	OnTimer	Width
Index	OnWave	

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