

Thales

technical components

Thales is a visual component library for Python. **Without** source code.

Thales provides software developers in technical, scientific, and industrial fields with a complete and powerful resource for creating applications in data acquisition and machine control.

Thales includes well over thirty components, among them various buttons, sliders, rotary switches, potentiometers, digital displays, analog instruments in multiple designs, a complete logic analyzer, an oscilloscope, a data logger, and much more. The components are highly customizable.

Thales significantly increases developer productivity through its flexible and powerful components.

Thales in its current form serves solely as a so-called backend for the aforementioned application areas. That is, the components form the interface between the data acquisition and processing parts on one hand and the operator on the other.

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Visual components

Bevel3D – Base element usable as a background, sunken or raised

TransparentLabel – Rotatable label in 1° steps with any fonts, colors, and text sizes

FlashLabel – Colored text field with optional blinking effect, display with any text and font, ideal as a status indicator

SlideButton – Slide switch with customizable label and colors

StatusIndicator – Switch, a replacement for checkboxes and radio buttons; LED color, size, and appearance are widely customizable

GlyphButton – Button with text and optional glyph

SelectSlide – Slider with up to 20 detents, freely labelable

DetSlider – Slider with infinite number of detents, arbitrary start and end values, horizontal and vertical orientation, and a widely customizable appearance

Slider – Slider without detents, customizable start and end values

Selector270 – Rotary switch with infinite number of detents

Poti270 – Potentiometer with customizable start/end values and scale markings

Poti10K – Potentiometer with customizable start/end values and scale, freely labelable; outer knob with 270-degree range, inner with 3600-degree range

AlphaBar – Keyboard substitute for systems without a physical keyboard

SevSegSpin – Thumbwheel switch with seven-segment display, with or without wrap

SevSeg – Seven-segment display with two controllable LEDs and unit display, customizable appearance

FullSevSeg – Simple seven-segment display, all colorings freely selectable

DigiTime – Digital time display, all colorings freely selectable

MagicEye – Bar graph with adjustable start and end values, suitable for simple spectrum display

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LoadingBar – Progress bar, controllable in percentages or real values, appearance freely customizable

Compass – Compass with digital display of should course and deviation

MeterPanelH – Horizontal panel meter, freely labelable, controllable LEDs, fully customizable colors, adjustable scale divisions

MeterPanelV – Vertical panel meter, freely labelable, controllable LEDs, digital measurement display, highly customizable appearance

Meter120 – Panel meter with 120-degree scale, adjustable damping, digital measurement display, drag pointer, controllable LEDs, freely labelable, customizable colors

Meter180 – Panel meter with 180-degree scale, adjustable damping, digital measurement display, drag pointer, controllable LEDs, freely labelable, customizable colors

Meter270 – Panel meter with 270-degree scale, adjustable damping, digital measurement display, freely labelable, customizable colors

Meter360 – Panel meter with 360-degree scale, two independent scales and pointers, adjustable scale divisions, fully customizable colors

LogView – Log window for displaying text messages in real-time. Ideal for event logs or diagnostic data

BoxLine – Display unit for representing binary information, horizontal and vertical display, bit order reversible

ArrowSpin – 360-degree arrow indicator, direction and speed configurable

Logicana – Comprehensive and powerful component for displaying or analyzing digital data, channels can be disabled

Oscillo – Component with full oscilloscope functionality, fully adjustable

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xyGraph – Continuous graphical display of incoming measurement data, real-time capable up to a certain speed

StatChart – Chart element for graphical data display, configurable presentation

Non-visual components

SmartTimer – Timer component providing an unlimited number of timer channels

PlaySnd – Component for playing audio files, suitable for program-controlled speech output and announcements of messages and warnings

Iconize – Launches the program as an icon in the taskbar or completely hidden

FormLang – Multilingual module that automatically provides text translations for widgets