# Analogue Clock

This example implements and assembles an analogue clock, which shows the current system time, with standard visualization elements.

## Product description

A clock with clock hands for hours, minutes and seconds is animated in the visualization.

## More information

`FB_Clock`: The function block `FB_CLOCK` implements the logic for getting the current time. First a time zone is set and afterwards the time and date is fetched. Due to the fact that the parts like hour, minute and second are needed, the date and time variable is split. These parts can be used by the visualisation to show the time.

`Visualization`: The Clock visualisation builds an analogue clock with several ellipses and polygons. It is possible to make several references of this clock. Therefore a frame must be added in the main visualisation. Right click on the frame and choose Frame Selection. There the visualisation can be selected. For showing the time, a placeholder called `FB_CLOCK` is defined in the Interface Editor of `Clock_Visu`. This variable is used to animate the clock hands. By referencing the clock, the variable for the placeholder must be set in the Properties Editor at the References point. In this way it is possible to reference more clocks e.g. with different time zones.

## General information

**Manufacturer:**

3S-Smart Software Solutions GmbH
Memminger Strasse 151
87439 Kempten
Germany

**Support:**

https://support.codesys.com

**Item:**
Analogue Clock
**Item number:**
000020
**Sales:**

CODESYS Store
https://store.codesys.com

**Included in delivery:**
- CODESYS software and / or license key with billing information
- For training courses and events: Booking confirmation

## System requirements and restrictions

| | |
|---|---|
| **Programming System** | CODESYS Development System Version 3.5.3.0 or higher |
| **Runtime System** | CODESYS Control Version 3.5.3.0 |
| **Supported Platforms/ Devices** | Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store. |
| **Additional Requirements** | - |
| **Restrictions** | - |
| **Licensing** | License activation optional on CODESYS Runtime Key or CODESYS Soft Key (free of charge component of CODESYS Controls) |
| **Required Accessories** | e.g. CODESYS Security Key |

*Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.*
*Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.*