

PA-Toolkit Library GSBE-MTP

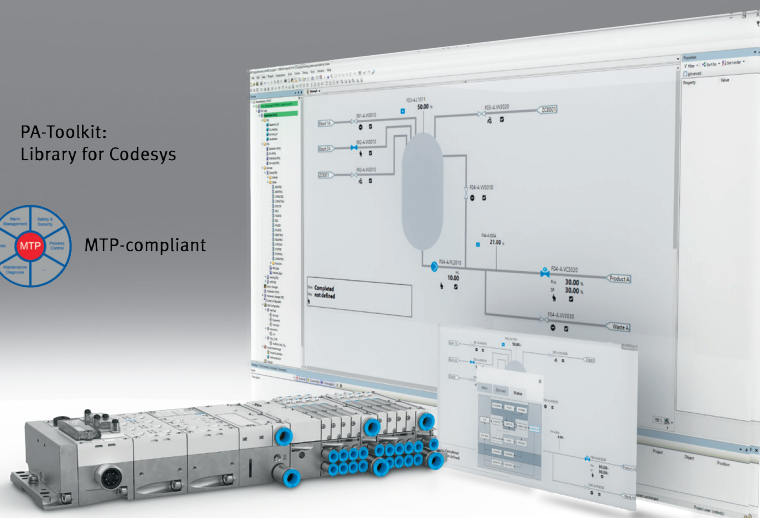
FESTO



PA-Toolkit:
Library for Codesys



MTP-compliant



Characteristics

At a glance

With the PA Toolkit, implementing the automation logic of process engineering units and modules is really intuitive.

The PA Toolkit offers a comprehensive set of predefined function blocks and associated visualisation elements. This enables the simple and intuitive development of control logics and user interfaces. Suppliers of process engineering units can thus implement automation solutions without in-depth programming knowledge.

Modularisation is found in every industry and enables automated modules to be combined for fast and flexible production. The simplicity of this combination lies in the standardisation of the interfaces used for this as defined by the VDI/VDE/NAMUR 2658 Module Type Package (MTP) for process engineering modules. The PA Toolkit supports these interfaces so they can be integrated consistently into any MTP-capable control system.

The PA Toolkit contains an extensive supply of function blocks, symbols and faceplates for CODESYS. The function blocks offer versatile and reliable modules for implementing your automation processes. The full range of functions for the visualisation elements are provided by simply linking them to the corresponding function block.

The library for CODESYS can be used for programming applications without in-depth programming knowledge. It is ideal for automating modular systems according to the MTP standard.

Operating mode:

- Download package
- Select field devices in a system (manufacturer-independent)
- Parameterising the function block; field devices are represented by their digital twin in the application software
- Symbols in the process graphics allow the system operator to access the field devices during runtime
- The MTP description file is exported from the process graphics, which enables error-free and easy connection to the control system

Function block families available in the PA Toolkit at field level:

- Analogue input and output (each analogue sensor, each device control with analogue signal)
- Digital input and output (e.g. limit switches)
- Bistable valve (e.g. on/off process valves) and regulator
- Bistable actuator (e.g. on/off motors) and variable speed drive
- Positioning based on electrical terminal CPX and valve terminal MPA from Festo

Function block families available in the PA Toolkit at application level:

- Service (sequential function diagram, S88 batch phase)
- Totaliser (integrator for dosing)
- PID controller

Development environment

- CPX-CEC-* V3 as of revision R08
- Supported systems
- CPX-E-CEC-* as of revision R10
- Codesys development environment from version 3.5.12.60

Licence

No licence is required for installing and using the PA Toolkit in the CODESYS development environment. To execute a control logic implemented with the PA Toolkit, a licence is required on the executing controller. An automatically renewable demo licence is available for two hours for the development and execution of an application in a test environment. This licence does not need to be activated.

A control licence is required for continuous operation in an automation solution. The control-related licences enable productive use of an application. Licences are assigned by entering the corresponding product key.

To use the licence, you must first activate it and transfer it to the controller. (<https://festo.com/licence-activation>)

Type code

001	Series		003	Type of licence	
GSBE	Edge		P	Perpetual	
002	Variant		004	Number of assets or users	
MTP	PA Toolkit MTP Library		1	An asset or user	

Datasheet

General technical data	
Licence period	No time limit
Type of software	Device application
Software function classifica- tion	Programming
Software functionality	Function blocks, Low-code development visual progr., Visualisation, Interactive simulation
Licence package	1 asset
Min. required version	CODESYS 3.5 SP12
Required basic licence	Festo AX Controls CODESYS PLC Basic
Available languages in the us- er interface	English
Type of user interface	GUI

Ordering data

Ordering data		
Licence type	Part no.	Type
Perpetual	8252574	GSBE-MTP-P-1