## **Z**COCKPIT

### Integrated engineering, based on CODESYS 3





#### **Automation Software**

Quickly implementing complex machine functions is critical in modern mechanical engineering applications. Both in the office and on the shop floor, development engineers and technicians must manage challenging tasks.

e!COCKPIT is an integrated development environment that supports every automation task from hardware configuration, programming, simulation and visualization up to commissioning – all in one software package. Completely reimagined, this development environment enables users to easily master complex automation networks, saving both time and money.

#### **CODESYS 3: Integrated Environment**

e!COCKPIT is based on the high-performance and well-established COD-ESYS 3 industry standard. This industry-proven programming environment guides developers, allowing them to reuse and further develop existing projects without relearning software. Software developers also benefit from the continuous development of the base platform. Compatibility with the IEC standard ultimately ensures the continued profitability of all investments – including those you have already made.

#### **Open to Proven Standards**

The software is open to well-established standards, making it an investment in the future. For example, connecting controllers to fieldbus systems using **e**!COCKPIT is incredibly simple – opening up all the advantages of existing field devices. Ultimately, **e**!COCKPIT is based on modern IT standards and development methods – guaranteeing long-term viability.

Description	Item No.	Pack. Uni		
e!COCKPIT workstation license	2759-0101/1110-2002	1		
e!COCKPIT multi-user license, 10 ea.	2759-0101/1110-2010	1		
e!COCKPIT multi-user license, 15 ea.	2759-0101/1110-2015	1		
e!COCKPIT multi-user license, 20 ea.	2759-0101/1110-2020	1		
e!COCKPIT site license	2759-0101/1110-3000	1		
e!COCKPIT by-out license	2759-0101/1110-4000	1		
Workstation license: Can be installed on up to two PCs (e.g., notebook & desktop)				
Multi-user license: Can be installed up to the number specified				
Site license: Unlimited installations at a company location				
Buy-out license: Unlimited installations across locations				
Accessories	Item No.	Pack. Uni		
WAGO USB communication cable,	759-923	1		
2.5 m long				
WAGO USB communication cable,	750-923/000-001	1		
5 m long				

Technical Data		
Supported operating systems	Windows 7 (32- and 64-bit),	
	Windows 8, Windows 8.1 (32- and 64-bit)	
System requirements		
Processor	Core2Duo	
Memory	2 GB	
Hard disk storage	1 GB	
Graphics resolution	1366 х 768 рх	
Supported devices	Controllers based on CODESYS 3,	
	I/O modules (750/753)	
Supported fieldbuses	CANopen, Modbus TCP/UDP,	
	MODBUS RTU, PROFIBUS	
Supported device descriptions	DTP, EDS, GSD	
Connectivity	TCP, USB, OPC, CODESYS network	
	variables, CODESYS data server	
Programming languages	IEC 61131-3: ST, LD, FBD, IL, FC, CFC	
Import/Export formats	CODESYS 3 project files (*.project)	
Delivery type	Installation file (download)	
Internet connection may be required for lice	nse activation.	

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### Programming

e!COCKPIT offers multiple software development options:

- IEC 61131-3 PLC programming languages: Structured Text (ST), Ladder Diagram (LD), Function Block Diagram (FBD), Instruction List (IL), Sequential Function Chart (SFC), Continuous Function Chart (CFC).
- For flexibility, all programming languages can be combined with one another.
- Created programs can be easily debugged on the engineering PC via simulation.
- New paradigms such as object-oriented programming are included.



# Diagnostics

Being acutely aware of the automation network's current status is an absolute must for the rapid detection and elimination of errors – be it during development in the office or directly on the machine during commissioning.

e!COCKPIT provides comprehensive diagnostic capabilities:

- Individual views always display the controllers' status information, for example, both graphically and in tabular form.
- To keep project on time, error messages are transmitted directly and clearly.
- The structured wiring test function systematically identifies wiring errors.

## Configuration and Parameterization

The integrated **e**!COCKPIT configurators provide modern operating tools and workspaces, such as:

- Graphical network topology: Complex dependencies between network participants and their current states are easily and intuitively accessed.
- Drag & Drop: Simplifies interaction with devices.
- Copy & Paste: Individual devices or whole network branches can be duplicated quickly.
- Batch processing: Parameter values are set simultaneously for several devices.



### Visualization

Advanced user interfaces for operating and monitoring machines are standard. Today, HMI-based design is a critical factor that influences the purchase of an entire automation line. **e**!COCKPIT employs Drag & Drop to streamline the design of modern user interfaces. The integrated visualization editor provides:

- Access to IEC program variables.
- Closed simulation of HMI and PLC program on the engineering PC.
- Guaranteed language independence via Unicode character set.
- Current standards such as HTML 5 or CSS.

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