Software
General Product Information

Software Factors into Success
Projects in production, process and building automation are characterized by increasingly short implementation times, ever more complex structures and the increasing role of software as part of the overall solution. In fact, software is becoming an essential factor that influences the success of a project.

Engineering software is used for both machine and system development, as well as the implementation of building automation projects. Runtime software controls the devices at operating time.

Customized Software Tools
Significant challenges must be overcome to develop, operate and maintain modern machines and systems, as well as programs, configure and commission applications for building automation. Customized software tools are available as needed for every task — embedded in integrated engineering or as a stand-alone tool for a set of dedicated functions.

CODESYS as an Integrated Environment
All WAGO controllers are equipped with the high-performing CODESYS industry standard. This allows software development in IEC 61131-3 PLC programming languages (ST, FBD, LD, IL, SFC and CFC). As a trusted programming environment, CODESYS guides developers, allowing them to reuse and further develop existing projects without relearning software. This means that modern paradigms, such as Object-Oriented Programming (OOP), or modern visualization technologies are available.

Pre-made Software Solutions
Pre-made software solutions or applications simplify automation. Such solutions involve reusable software that can be used for the specific application by making simple adjustments. This approach saves time and money.

Open to Proven Standards
The software is open to well-established standards, making it an investment in the future. The software supports all prominent fieldbuses, for example. Thus, WAGO components can be seamlessly integrated into engineering software via standardized device description files. In addition, connecting controllers to fieldbus systems via WAGO engineering software is an easy task — opening up all the advantages of existing field devices. Ultimately, WAGO software is based on modern IT standards and development methods — guaranteeing long-term viability.

Extensive Import and Export Functionality
The software tools are impressive with their ability to exchange project data with external design tools involved in the development process, which prevents costly, error-prone double entry.

Industry-Specific Configurators
Whether industry, process or building automation, every sector and industry has specific requirements. Therefore, plug-ins specifically customized for the needs of individual industries are available in addition to the common software base. These plug-ins can be used, for example, to measure energy or easily configure a DALI network.

Advantages:
• Customized software for every automation task
• Extensive import functions from external design tools
• Plug-ins for industry-specific development environments
• Comprehensive software solutions for various industries
• Simple and secure licensing
Software
General Product Information

Software for Mechanical Engineering
Software is used in every phase of machine and system automation — from design to successful machine operation.

Engineering Software
Quickly implementing complex machine functions is critical in modern mechanical engineering applications. PC-based engineering software supports all development activities. The focus is on simple configuration, timely programming and efficient commissioning of automation network components.

Engineering tools are typically not permanently linked to the machine — they only communicate with the machine during startup and maintenance.

Runtime Software
The machine is controlled by runtime software that determines behavior, while enabling both operation and current status monitoring for the user. It also transmits operating data to higher-level systems. With comprehensive, tried-and-tested software function blocks (IEC libraries), development goals are reached more quickly.

Unlike engineering software, runtime software operates continuously — it is a part of the machine and ensures correct operation.

Mobile Software (Apps)
Software on mobile devices can also be productive in the industrial environment. The software allows users, for example, to quickly and easily operate and monitor automation processes from a smartphone or tablet — from anywhere.

Mobile software typically communicates only with the machine’s controller for a specific application.