CONTROLLERS
Open – Flexible – Compact

For controlling all automation tasks, WAGO offers programmable logic controllers in a wide variety of performance classes. And, they can be used for both centralized and decentralized applications. For decentralized control tasks, the WAGO controllers can be incorporated into the most prevalent fieldbus networks and they record all field signals via I/O modules.

WAGO’s IEC 61131-3 programmable controllers perform a variety of automation tasks, while providing all the benefits of standard PLC technology (e.g., robustness, stability, reliability and high availability).

Direct connection to 500+ digital, analog and specialty modules within the WAGO-I/O-SYSTEM 750 enables the creation of a large number of applications. With performance and capabilities extending from the fieldbus controller to the PFC200, WAGO’s controllers provide scalable memory and speed along with a variety of interfaces and communication protocols.

- Fieldbus-independent — Support all standard fieldbus protocols and ETHERNET standards
- Scalable performance — Fieldbus Controllers, Control Panels, PFC200
- Programmable to IEC 61131-3
- Integrated in the WAGO-I/O-SYSTEM 750

For more information, visit www.wago.com.
THE PFC200 CONTROLLER
Maximum Performance in a Minimum Space

As the newest member of the WAGO control family, the PFC200 Controller excels with high processing speed and multiple interfaces for parallel communication. All PFC200 Controllers feature two ETHERNET ports and — depending on the model — additional interfaces. The CANopen, PROFIBUS DP and Modbus TCP/UDP/RTU protocols provide flexible connection to fieldbus systems and external input/output devices. These fieldbus systems can be easily configured directly in WAGO’s easy-to-use e!COCKPIT development environment.

The ETHERNET interfaces also support protocols such as DHCP, DNS, SNTP, FTP and HTTP. A safe connection is provided via SSH, HTTPS and FTPS. A 128 KB remanent memory area is also available for the safe storage of retained PLC variables when voltage is not applied.

In addition to the well-established CODESYS 2 runtime system standard, the PFC200 Controller also features e!RUNTIME — an on-board CODESYS 3-based runtime system. Together with e!COCKPIT, these systems provide innovative options for generating programs and visualization. As such, the PFC200 is ideal for supporting the transition to CODESYS 3.

- Can be combined with high-level languages
- Linux® 3.6 real-time operating system
- SSH and SSL provide a high security level
- Runtime system for CODESYS 2 and 3
PROGRAMMABLE FIELDBUS CONTROLLERS

Speed — Intelligence — Strength — Extensive Features

Modular Controllers for the WAGO-I/O-SYSTEM 750

WAGO’s controllers are the powerful solution for a wide variety of applications ranging from industrial and building automation to measurement and data collection. They easily integrate into existing IT structures, providing a link between real-time process data and IT applications. The controllers ideally combine real-time requirements with IT services. They support both MODBUS/TCP and ETHERNET/IP for use in industrial environments. HTTP, SNMP, FTP and other protocols simplify integration into IT environments. Integrated Web pages and Web-based visualization provide IT applications with real-time process data. A large number of library functions support both software/hardware interfaces and an integrated I/O system.

- Controllers for all standard fieldbus systems
- Quick start-up
- Space-saving design
- Maintenance-free

Modular Controllers for the WAGO-I/O-SYSTEM 750 XTR

Instantly recognizable by its dark gray modules, the WAGO-I/O-SYSTEM 750 XTR’s unique features make it ideal for extreme environment applications by providing:
- Lower space requirements
- Lower purchase costs
- Lower energy costs
- Lower maintenance costs
- Safe investment
- Maximum system uptime
- Greater productivity
- eXTReMe temperature from -40 °C to +70 °C
- eXTReMe isolation up to 5 kV of impulse voltage
- eXTReMe vibration up to 5g of acceleration
PERSPECTO® PANELS
Controlling – Monitoring – Visualizing

Programmable with
WAGO-I/O-PRO

ENGINEERING SOFTWARE
Programmable to IEC 61131-3

Software Factors into Success
Today’s mechanical engineering and related industries are characterized by ever-shortening development times, exponentially more complex projects and the increasing role of software as part of the overall solution. In fact, software is becoming an essential factor influencing the success of a project.

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

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PERSPECTO® is WAGO’s comprehensive monitor and panel system for operating and monitoring process data for machines, systems and control technology.

The WAGO-I/O-SYSTEM and PERSPECTO® are perfectly matched: Both system components guarantee smooth, trouble-free communication with a controller or the system’s IPC. Enhanced runtime systems and programs provide consistently high performance.

- Full CODESYS 2.3 functionality
- Integrated Web server
- Energy efficient
- Multiple interfaces

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- Integrated Web server
- Energy efficient
- Multiple interfaces

COCKPIT
based on CODESYS 3
- Integrated engineering: One software for every task
- A smart design that invites you to discover
- Modern software: end-to-end data storage and automatic online upgrades
- Based on CODESYS 3 technology
- Graphical network configuration

WAGO-I/O-PRO
based on CODESYS 2.3
- Highly efficient translation between programming languages
- Automatic declaration of variables
- Library management
- Online status indication in the program code
- Offline simulation and integrated process visualization
- Recording and graphical display of project variables
## Programmable Fieldbus Controllers 750

<table>
<thead>
<tr>
<th>Item Number</th>
<th>CPU</th>
<th>Fieldbus</th>
<th>Other User Protocols</th>
<th>Interfaces</th>
<th>Program Memory</th>
<th>Data Memory</th>
<th>Retain Memory</th>
<th>File System</th>
<th>Web Server</th>
<th>Web-Visu</th>
<th>Target-Visu</th>
</tr>
</thead>
<tbody>
<tr>
<td>750-806</td>
<td>16-bit</td>
<td>Ethernet/IP, PROFIBUS, CANopen, Others</td>
<td></td>
<td></td>
<td>128 kB</td>
<td>64 kB</td>
<td>8 kB</td>
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<td>750-81x</td>
<td>16-bit</td>
<td>Ethernet/IP, PROFIBUS, CANopen, Others</td>
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<td>32 kB</td>
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<td>750-833</td>
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<td>750-837</td>
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<td>Ethernet/IP, PROFIBUS, CANopen, Others</td>
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<td>Master/Slave</td>
<td>128–640 kB</td>
<td>64–832 kB</td>
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<td>750-838</td>
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<td>Ethernet/IP, PROFIBUS, CANopen, Others</td>
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<td>Master/Slave</td>
<td>128–640 kB</td>
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<td>750-842</td>
<td>16-bit</td>
<td>Ethernet/IP, PROFIBUS, CANopen, Others</td>
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<td>TCP (UDP)</td>
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<td>128 kB</td>
<td>64 kB</td>
<td>8 kB</td>
<td></td>
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<tr>
<td>750-843</td>
<td>16-bit</td>
<td>Ethernet/IP, PROFIBUS, CANopen, Others</td>
<td></td>
<td>TCP (UDP)</td>
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<td>64 kB</td>
<td>8 kB</td>
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## Programmable Fieldbus Controllers 750 XTR

<table>
<thead>
<tr>
<th>Item Number</th>
<th>CPU</th>
<th>Fieldbus</th>
<th>Other User Protocols</th>
<th>Interfaces</th>
<th>Program Memory</th>
<th>Data Memory</th>
<th>Retain Memory</th>
<th>File System</th>
<th>Web Server</th>
<th>Web-Visu</th>
<th>Target-Visu</th>
</tr>
</thead>
<tbody>
<tr>
<td>750-838/040-000</td>
<td>32-bit</td>
<td></td>
<td></td>
<td>Master/Slave</td>
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<td>640 kB</td>
<td>832 kB</td>
<td>8 kB</td>
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<tr>
<td>750-880/040-00x</td>
<td>32-bit</td>
<td>X TCP (UDP)</td>
<td>IEC 60870/61850/61400-25</td>
<td></td>
<td>1024 kB</td>
<td>32 kB</td>
<td>2 MB internal + 32 GB with SD card</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>750-8202</td>
<td>32-bit ARM9</td>
<td>Cortex A8, 600 MHz</td>
<td></td>
<td>TCP (UDP), RTU</td>
<td>IEC 60870/61850/61400-25</td>
<td>2x</td>
<td>X</td>
<td>Depends on runtime system:</td>
<td>X</td>
<td></td>
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</tr>
<tr>
<td>750-8203</td>
<td>32-bit ARM9</td>
<td>Cortex A8, 600 MHz</td>
<td></td>
<td>TCP (UDP)</td>
<td>Master/Slave</td>
<td>2x</td>
<td>X</td>
<td>CODESYS 2.3 = 80 MB (program memory), 64 MB (data memory)</td>
<td>X</td>
<td>X</td>
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<tr>
<td>750-8204</td>
<td>32-bit ARM9</td>
<td>Cortex A8, 600 MHz</td>
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<td>TCP (UDP), RTU</td>
<td>Master/Slave</td>
<td>2x</td>
<td>X</td>
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## PFC200 Controllers

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<th>CPU</th>
<th>Fieldbus</th>
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<th>Interfaces</th>
<th>Program Memory</th>
<th>Data Memory</th>
<th>Retain Memory</th>
<th>File System</th>
<th>Web Server</th>
<th>Web-Visu</th>
<th>Target-Visu</th>
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<tbody>
<tr>
<td>762-3103/000-001</td>
<td>32-bit ARM9</td>
<td>Cortex A8, 200 MHz</td>
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<td>TCP (UDP), RTU</td>
<td>IEC 60870/61850/61400-25</td>
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## PERSPECTO® Control Panels

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<th>Item Number</th>
<th>CPU</th>
<th>Fieldbus</th>
<th>Other User Protocols</th>
<th>Interfaces</th>
<th>Program Memory</th>
<th>Data Memory</th>
<th>Retain Memory</th>
<th>File System</th>
<th>Web Server</th>
<th>Web-Visu</th>
<th>Target-Visu</th>
</tr>
</thead>
<tbody>
<tr>
<td>762-3100/000-001</td>
<td>32-bit ARM9</td>
<td>Cortex A8, 200 MHz</td>
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<td>TCP (UDP), RTU</td>
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<td>X</td>
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<tr>
<td>762-3121/000-001</td>
<td>32-bit ARM9</td>
<td>Cortex A8, 200 MHz</td>
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<td>TCP (UDP), RTU</td>
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<td>32-bit ARM9</td>
<td>Cortex A8, 200 MHz</td>
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<td>TCP (UDP), RTU</td>
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<td>762-3135/000-001</td>
<td>32-bit ARM9</td>
<td>Cortex A8, 200 MHz</td>
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<td>TCP (UDP), RTU</td>
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Subject to design changes