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Seize the Game with WAGO ETHERNET 2.0 Controllers

For automation engineers who strive to enhance machine or process performance, speed system development and reduce automation costs, the WAGO Ethernet 2.0 programmable controllers provide game-changing flexibility and a proven architecture that simply works.

Highlighted Features

- 60% more control and maintenance budget – without sacrificing performance or support.
- 1,000 instructions processed in 235 μ s – with high speed processing power
- Up to 5x smaller than other PLCs-allows you to put more in the same enclosure or use smaller enclosures.

Extended Features

- IT protocols: HTTP, BootP, DHCP, DNS, SNTP*, SNMP*, FTP
- Industrial networks: Modbus/TCP and EtherNet/IP* built-in
- Minimum of 1MB program memory and 512kb data memory
- Web-based management and visualization
- 2MB for built-in file system and web server functions
- Access to over 400 digital, analog and special function I/O modules
- 24-month warranty, free technical support

750-881 - The Pacesetter

Eliminates additional networking hardware due to the built-in Ethernet switch and allows line topology wiring of the Ethernet network. Both Ethernet ports support auto-negotiate and auto-MDI(X).

750-880 - The Memory Master

SD card slot mobilizes up to 8 Gigabyte of memory. Ideal for expansion of memory, program backup and restore, or program recipe exchange. Built-in program memory is also expanded to 1MB.

750-882 - The Redundancy Expert

Redundant networking with independent Ethernet ports. If one network or server fails, the redundant communication path can use the second interface. It also supports increased network and system availability, permitting data transfer between different networks (e.g., between the machine and office).

759-333 - The Software Solution

Site license IEC 61131 programming tool supports 6 programming languages, online debugging, offline simulation, integrated HMI tool, no maintenance fees, no renewal fees, free upgrades, and more.

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Desigo V5: Innovations from Siemens increase building efficiency

The Siemens Building Technologies Division has introduced version 5 of its Desigo building automation system. Its innovative products such as Total Room Automation as well as efficiency features, like RoomOptiControl and Eco Monitoring, give building operators and users an active role in energy management, leading to permanent reductions in energy and maintenance costs. A state-of-the-art building automation system is always optimized for energy-efficient operation. However, these optimized settings may start to drift over time. One of the underlying causes is often a lack of transparency for users who simply don't know how the setpoint changes they make can impact energy consumption. This is particularly true for air-conditioned rooms which are also equipped with lighting and sun protection controls. The new version of Desigo keeps room users and building operators apprised of the building's efficiency status. Feedback to users is given using the innovative Green Leaf display, adapted to the expertise and control options of each user group. The system makes it possible to change settings if needed to restore optimal energy efficiency. A study by Technische Universität München (TUM) indicates that by actively involving operators and users in the energy management of a building, energy consumption can be reduced by up to 25% without affecting comfort.

Total Room Automation offers energy savings without reducing comfort

The open, programmable room automation range Desigo Total Room Automation (TRA) is a holistic solution encompassing the HVAC, lighting and shading disciplines. Desigo TRA uses an innovative efficiency feature called RoomOptiControl. It automatically detects unnecessary energy consumption in the room and notifies users by changing the color of the Green Leaf icon on the QMX3 room control unit: If room operations are energy efficient, this icon is green. If settings made by a room user lead to unnecessary energy consumption, the icon turns red. To reset room control to energy efficient operation, the user simply presses the display and the Green Leaf icon returns to green.

Using BACnet/IP, PXC3 room automation stations—also part of the TRA package—are integrated seamlessly into the PX automation level with its primary systems (heating generators, HVAC main units and cooling generators). The primary systems are controlled directly through the demand signals from the rooms. This means that the primary systems are only turned on if needed and their operation is adjusted so it meets the room requirements without exceeding them. One room automation station can cover multiple rooms. TRA offers complete integration of KNX, DALI and EnOcean devices; existing or new sensors and actuators from Siemens can be incorporated as well.

Eco Monitoring to reduce energy consumption and wear

Eco Monitoring is another innovative efficiency feature of Desigo. It monitors ongoing operations of HVAC systems based on energy-related quality condition indicators such as readings from temperature, humidity and pressure sensors, runtime, switching behavior and operational performance of the systems. Should deviations from the target state, inefficient operations or increased energy consumption occur, the building operator is notified via the Green Leaf display on the Desigo Insight management station. Current and future international standards (such as

EN 15323:2007) require such a feature in order to optimize building operations over the long term.

Desigo Eco Monitoring not only helps optimize energy consumption, it also reduces wear. Thanks to its dynamic behavior and timely reporting, the Eco Monitoring feature recognizes unfavorable system operations early on, allowing operators to intervene immediately before any negative impact occurs. If desired, operators can choose to be notified of unusual events via text messaging (SMS), fax or e-mail.

Expanded networking of the automation level

Starting with version 5, Desigo also offers expanded end-to-end networking of the automation level. Enhanced support for communications standards ensures efficient system integration. The PXC series of compact automation stations has a higher number of universal inputs/outputs, which makes them much more flexible. To protect existing investments, different device generations, such as PTM and TX I/O modules and RXC room controllers, can be used in parallel on the same PX automation station.