Control high-performing buildings

Desigo PXC controllers

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It's your turn to create high-performing buildings with the Desigo PXC controllers

Today's buildings must be ready to effectively manage energy consumption, securely connect intelligent devices, and ensure the well-being of their occupants. This transformation starts in the core of their building automation system with powerful primary controllers: The Desigo PXC controllers.
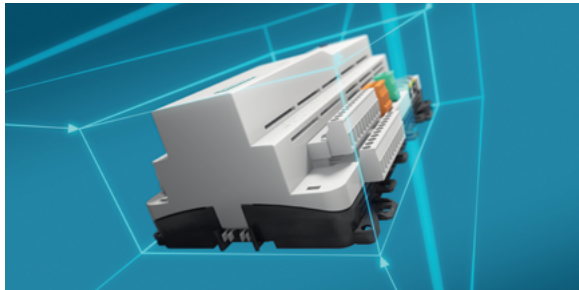

Intuitive engineering

PXC4 and PXC5 controllers are engineered with the license-free Desigo Engineering Framework. This comprehensive engineering solution allows you to use the same workflow to plan, engineer and commission your complete HVAC plant, from primary to room automation, and various connected field devices. Moreover, your engineering effort is highly reduced, thanks to a simplified block programming and preconfigured plant applications.

Open by design

The PXC controllers are designed to minimize building energy consumption and reduce cabinet size. Installation is made in a snap thanks to the standard DIN rails. The controllers have significant integration capabilities and natively manage BACnet routing. Multiple protocols are compatible without the need for additional hardware or software.
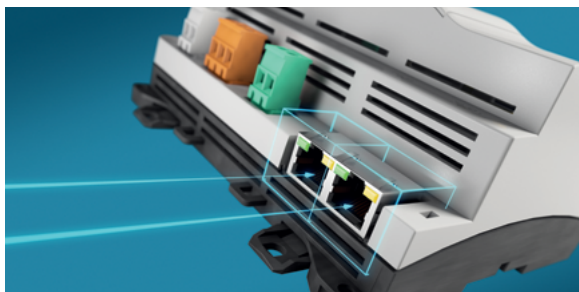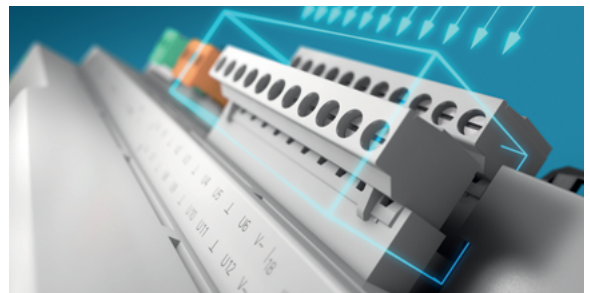

Easy access

You have various options to access your PXC controllers: Ethernet, WLAN or Cloud. To finalize on-site engineering and commissioning, just connect your device wirelessly to the embedded hotspot of the controller. To avoid unnecessary travel when off-site, maintain your system remotely by accessing the built-in web interface via a secure cloud connectivity*. All you need is an internet connection to manage your system from your PC or mobile devices.

Security in Mind

Todays advanced devices require the highest level of data security. That is why the PXC controllers come with strong, built-in features. Server communication is encrypted via https and the system benefits from password protection and hotspot disabling when unused. Furthermore, for controllers that are ready for BACnet Secure Connect, the certificate handling enables optimally secure operation.
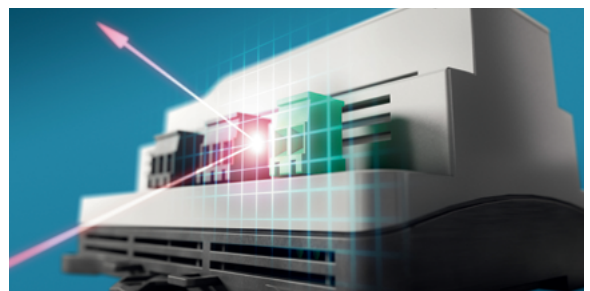
Learn more

*subject to regional availability

Powerful controllers with extensive functionalities for your building

The best of Siemens building technologies has been gathered in these future-proof primary controllers. Designed with high-performance in mind, the features of the Desigo PXC controllers empower the building automation system and make your work easier.

The right choice for your building
Desigo PXC4 and PXC5 support you throughout all the phases of your building project to make your work better, faster and easier.

Project planning
In the HIT Portal: provide your building and plant I/O information to calculate the requirements of your project. Select the PXC controllers that fit your application the best and download the documentation for the next step of engineering with ABT Site.

Engineering
With the downloaded documentation from the HIT Portal, start the engineering of your PXC controllers with ABT Site. Set-up the data points no matter they are from BACnet or Modbus. The hardware and software remain the same, making your work much easier.

Programming
Still on ABT Site, use the program and function blocks to save valuable time on your programming. Add the application examples and assign the field devices in a click with drag and drop.

Commissioning
Download the application and enjoy a fast commissioning with live values display. To ensure a maximum flexibility, use the mobile app ABT Go for an efficient point testing and essential documentation.

Maintenance
It has never been easier to maintain your automation system than with the Desigo Engineering Framework. No need to travel on-site, just access the built-in web interface through the cloud to identify the error and correct it from your PC.

Functionalities at a glance

	PXC4* HVAC controller	PXC5 System controller
System functions (alarming, scheduling, trending)	✔	✔
Freely programmable with function blocks in libraries	✔	✔
Generic object viewer for datapoints via embedded web interface	✔	✔
16 onboard IO's: 12 universal input/outputs and 4 relay outputs	✔	
Direct connection of I/O TXM modules. Maximal number of inputs and outputs is 40.	✔	
Supervision of up to 600 devices and BACnet routing (IP to MS/TP)		✔
Integration of up to 60 BACnet MS/TP devices		✔
Integration of Modbus data points (TCP and/or RTU)	40	500

*PXC4 is available in a BACnet IP and BACnet MS/TP type.
 PXC4 Small without 3rd party integration available

Extension I/O examples

Type	Order number	Description
TXM1.8D	BPZ:TXM1.8D	8 Digital Input module
TXM1.8P	BPZ:TXM1.8P	8 Resistance measuring input module
TXM1.8T	S55661-J106	8 Triac output module
TXM1.4D3R	S55661-J124	4 Digital input and 3 Relay output module
TXM1.8U	BPZ:TXM1.8U	8 Universal I/O module
TXA.K12	BPZ:TXA1.K12	Address Keys 1–12 and one reset key

Further I/O extension modules, devices and accessories can be found in the product catalog on hit.sbt.siemens.com

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Smart Infrastructure intelligently connects energy systems, buildings and industries to adapt and evolve the way we live and work.

We work together with customers and partners to create an ecosystem that intuitively responds to the needs of people and helps customers to better use resources.

It helps our customers to thrive, communities to progress and supports sustainable development.

Creating environments that care.
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