Your specialized partner for intelligent building technology
Siemens Solution Partner – your first choice for efficient building technology

Your Solution Partner supports you on your path to an efficient and safe building. He is your specialized, reliable contact for high-quality and modern building technology that is tailored to your individual needs.

Around the world, only the best companies are certified by Siemens as Solution Partners and receive the Solution Partner logo as a quality seal. They have to demonstrate their competence, performance and expertise at regular intervals. You can be sure to receive the best solution and be supported with excellent service – as shown by the many successful, professionally realized projects and highly satisfied customers worldwide.
Flexible and sustainable solutions for a safe future

Competence – for flexible solutions
Solution Partners understand your needs and the local conditions. At the same time, they possess in-depth product and system knowledge and have a profound technical expertise. This is the basis, on which they create tailored solutions with future-proof, energy-efficient and safe building technologies. These solutions not only actively cut your operating costs, they are also reliable and environmentally friendly.

Performance – for sustainable building technology
Solution Partners ensure that planning, installation and maintenance are performed at the highest quality level and with leading-edge technologies. After a short period of time, you receive an optimally developed solution with a long life cycle that meets the highest quality standards.

Investment protection – for a safe future
Solution Partners offer extensive consulting, engineering, installation and services. They are backed by the comprehensive, consistent portfolio and innovative tools from Siemens. You therefore profit from short amortization times, low operating costs and long-term investment protection.

Highlights
- Tailored solutions that are highly economical and environmentally friendly
- Highest quality and reliability as well as optimal support in every project phase
- Short amortization times and low operating costs

PUMAVision Headquarters, Germany
Top performance from a Solution Partner in sustainability and cost savings using technology from Siemens.

The PUMAVision Headquarters is operated with a neutral effect on the climate – with a complete power supply from renewable energy sources, a thermo-active building structure (TABS) and an intelligent building automation concept.
Building technology pays off

A high level of comfort, reduced operating costs and a good eco-balance increase the attractiveness of your property.

After a short realization time, your investment amortizes within just a few years. You will profit directly and sustainably from all subsequent energy savings – and even more so due to rising energy costs.

Added value through intelligent building technology

For years, Siemens has been focusing on environmentally friendly technologies to improve the energy efficiency, safety and profitability of buildings. Solution Partners merge these products and systems to create intelligent solutions.

Building automation for more efficiency
Buildings consume lots of energy for heating, ventilation, air conditioning and lighting. They are responsible for about 40% of the energy consumption worldwide. With intelligent building automation, you can reduce this energy consumption and thus your operating costs by up to 30% – without compromising room comfort. With minimal energy, products and systems from Siemens can provide ideal climatic workplace conditions.

As a result, you cut your operating costs, increase the satisfaction of building occupants and actively boost the value of your property. In addition, the significantly improved eco-balance and reduced CO₂ emissions of your building also contribute to the climate and environmental protection.

Fire protection for reliable safety
Protecting people in a building from fire, smoke and heat is the responsibility of every building operator. In addition, the real estate, facilities and equipment as well as business continuity need to be protected in order to maintain delivery dates and prevent fire-induced damage to your company’s image or loss of business. The fire detection system from Siemens is extremely reliable and cost-efficient. It can be precisely tailored to potential fire hazards and the specific requirements of your property.

Therefore, you can optimally protect building occupants, visitors as well as property and processes in your building. You can minimize damages in the event of a fire and protect your business continuity. In addition, you will be in compliance with the latest legal requirements and increase the value of your property.
Everything you need – optimally matched
Building automation for optimal room comfort

With a building automation and control system from Siemens, you save energy and operating costs due to intelligent, cross-discipline functions. At the same time, you ensure an optimal room climate and create the best conditions for an ideal working environment.

Saving energy and lowering operating costs
The latest building automation can help you reduce your energy consumption immensely. With energy saving functions, for example, you can save large amounts of electrical and thermal energy:

- Up to 30% thermal energy savings for heating and air conditioning by using night setback and time programs
- Up to 50% energy savings with demand-controlled ventilation
- Up to 44% electrical energy savings due to intelligent lighting and shading control

This way, you will save energy and operating costs every month. You can obtain full transparency of your building’s efficiency with intelligent management functions like Eco Monitoring and Energy Reporting. At the same time, you can lower your building’s CO₂ emissions and make an important contribution to environmental protection.

The four efficiency classes A–D, in compliance with European Standard EN 15232, provide clear information on a building’s thermal and electrical energy usage. Key factors in achieving efficiency class A are demand-based control and cross-system communication.

Intelligent building automation contributes to the achievement of efficiency class A – and enables high energy saving potentials.

BACS efficiency classes – EN 15232

| High energy performance BACS and TBM | A |
| Advanced BACS and TBM | B |
| Standard BACS | C |
| Non-energy-efficient BACS | D |

BACS Building Automation and Control System
TBM Technical Building Management System
Future-proof quality and flexibility
The durability and flexibility of the modular system from Siemens ensure long-term investment protection. The building automation and control system Desigo™ Total Room Automation (TRA), for example, can be expanded step by step if needed and adjusted to changing requirements. Open and standardized communication and interfaces allow backward compatibility and comprehensive integration possibilities for interconnections irrespective of the supplier.

Actively saving energy with Green Leaf
With the latest operating units, the room user is actively involved in the energy-saving process and contributes significantly to reduced energy costs. This has been proven by a recent study by the Technical University of Munich.

Room comfort for optimal workplace conditions
Increased motivation, concentration and performance – an ideal room climate has many positive effects on room users. That is why building automation and control systems from Siemens ensure the right comfort temperature, good air quality and as much glare-free daylight as possible with intelligent control.

Highlights
- High energy savings reduce operating costs
- Eco Monitoring and Energy Reporting provide transparency
- Active involvement of room user in the energy saving process
- Flexible expansion, backward compatibility and standardized interfaces ensure long-term investment protection

Active energy management by room users
According to a study by the Technical University of Munich, you need up to one quarter less energy if the room user is actively involved in the energy saving process.

Desigo Total Room Automation helps you achieve this (additional) savings potential. Unnecessary energy consumption in a room is indicated by a change in color of the Green Leaf symbol. By simply pressing a button on the operating unit, room automation can quickly and easily be set back to energy-optimized operation.
Communicative products for efficient building automation

From operating units and sensors to damper actuators – many products for heating, ventilation, air conditioning, lighting and shading allow buildings to offer users a comfortable room climate while also saving energy.

The complete range at the highest quality
The comprehensive product portfolio from Siemens for energy-efficient building automation includes everything you need for a comfortable and “green” building – including controllers, meters, sensors and damper actuators. The products are all tailored to match standard applications in HVAC as well as lighting and shading. You receive everything from your Solution Partner for a complete, harmonious system with the highest efficiency.

All products are characterized by their high quality and reliability. The components are systematically tested under real life conditions at Siemens’ own HVAC laboratory. Your investments are well protected thanks to the longevity of the products.

Comprehensive product range for heating, ventilation, air conditioning, lighting and shading

<table>
<thead>
<tr>
<th>GAMMA building control</th>
<th>Symaro™ sensors</th>
<th>Acvatix™ valves and actuators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Future-proof building control for lighting, shading and room climate</td>
<td>Innovative sensors for all HVAC measurement ranges – with highest measuring accuracy and speed</td>
<td>Reliable valves and actuators for any application – with highest control accuracy, energy efficiency and easy handling</td>
</tr>
</tbody>
</table>
High flexibility in every project phase

Open, standardized communication protocols allow the integration of third-party devices. This offers a high level of flexibility. In addition, products from Siemens can be integrated step by step into the installation. As a result, the system can be implemented according to your requirements and budget and easily expanded or adapted at a later point in time. Backward compatibility is also ensured: Products from Siemens are continually refined with the latest technologies while remaining compatible with older products.

Optimal operation with minimized costs

All products are designed for easy installation, which allows for quick commissioning. The simplified handling also facilitates maintenance, and adaptations can be performed quickly and cost-effectively.

Highlights

- Optimally matched products allow for best possible energy efficiency
- High quality, durability and reliability ensure investment protection
- High flexibility allows integration of third-party devices, stepwise installation and backward compatibility
- Easy installation minimizes maintenance costs

---

<table>
<thead>
<tr>
<th>OpenAir™ damper actuators</th>
<th>G120P variable speed drive</th>
<th>Meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robust damper actuators for energy-efficient ventilation and a wide range of applications – from HVAC to fire protection</td>
<td>Easy-to-use variable speed drive for intelligent and environmentally friendly control of fans and pumps in HVAC plants</td>
<td>Reliable, decentralized recording of heat, gas, power and water consumption for a fair distribution of costs</td>
</tr>
</tbody>
</table>
Protecting people and assets
First and foremost, buildings have to be safe – for employees, visitors and tenants as well as for assets, machines and data. Intelligent fire protection solutions offer comprehensive protection against fire, heat and smoke. They detect danger while it is developing and react quickly and appropriately – just like the Cerberus® PRO fire protection system from Siemens.

Reliable fire protection from Siemens
The Cerberus PRO family from Siemens comprises all you need for comprehensive fire protection in your building: control panels, fire detectors, peripheral devices and accessories. All come with unique safety features. Fire detectors with the intelligent ASATechnology™ and highest detection reliability protect you against fire as well as false alarms. This means for you: No unnecessary business interruptions, since fire development is detected as early as possible.

Safe buildings with reliable fire protection

Fire protection is all about protecting people and assets and securing business processes and continuity. This is where the Cerberus PRO intelligent fire protection system plays a decisive role – with fast and reliable fire detection, alarm signaling and control.

Cerberus PRO is a powerful fire safety system for fast, reliable fire detection, alarm signaling and control. Its broad portfolio of innovative products provides clever technology with extensive safety features for small to very large applications.
**As big as you need it**
From small, simple systems to large, campus-wide networks – Cerberus PRO keeps all options open. The industrial LAN technology enables you to optimally adapt Cerberus PRO to your building structure. As you can connect multiple clusters, the overall network can be flexibly adapted to any existing building structure. In addition, the fire protection system can be integrated into your existing IT network.

**Cost-efficient fire protection**
With Cerberus PRO, you also benefit from low costs. Thanks to ensured business continuity, you will save both time and money because your processes won’t be interrupted by false alarms. Moreover, Cerberus PRO is a future-proof investment with low life cycle costs.

**Relying on experience**
Siemens stands for innovation, technology leadership and high quality. The company was the first manufacturer to offer automatic fire detectors. All products from Siemens are backed by decades of experience and know-how. The Cerberus PRO product portfolio will be continually extended – and compatibility of all future add-ons with existing installations is a matter of course.

---

**Highlights**
- Broad portfolio of reliable products with intelligent safety functions ensures comprehensive fire protection
- ASA technology means unique detection reliability and protection against false alarms
- Flexible networking possibilities, even for widely distributed or complex buildings

---

Detectors with the unique ASA technology offer advanced signal analysis and selectable parameter sets. As a result, they ensure highly reliable detection even in the most demanding application areas – from clean to harsh environments.
The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

© Siemens Switzerland Ltd, 2012 • Order no. 0-92298-en • 1,51209

Answers for infrastructure.
Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

“We are the preferred partner for energy-efficient, safe and secure buildings and infrastructure.”