

Priva Top Control



The intelligent method for integrated building control systems

Your building needs a control system that provides you with flexibility and reliability.

- Fast installation, easy maintenance, always expandable.
- Complete freedom in the choice of field equipment.
- Tested, effective, energy efficient controls with built-in expertise.
- Options for on-site or remote operation.
- An open system with standard protocols for two way communication
- Utilises the latest Internet technology.

Priva Top Control has all of these qualities. The system is based on the unique method developed by Priva Building Intelligence for constructing building control systems.



PRIVA Building Intelligence



Priva Top Control

Priva Top Control is a complete suite of software for intelligent building control in which applications function in perfect harmony with each other and the Priva controllers. This integrated environment ensures that your building services are fully automated and effectively controlled.

Priva Top Control building control systems stand out because:

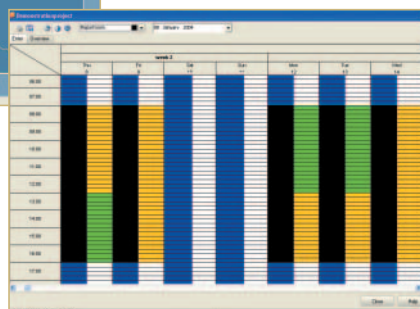
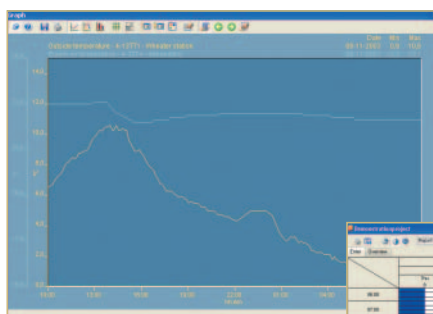
- standard engineering applications are already included;
- project files are the client's exclusive property – making it easy to commission additional work;
- they feature the smart methodology that gives you the freedom to put up-grades and additions out to open tender;
- project completion and additions to existing installations are fast and efficient.

Because a large portion of the costs involved in creating, maintaining and extending building control systems consists of labour, having software that is fast and efficient is in your best interest. That's why we developed the Priva Top Control method. Calculation, planning, engineering, simulation, commissioning, control, front end access and logging – all can be done within one integrated software family working from one source - the project database. Data has to be entered once only and can then be used in all applications.

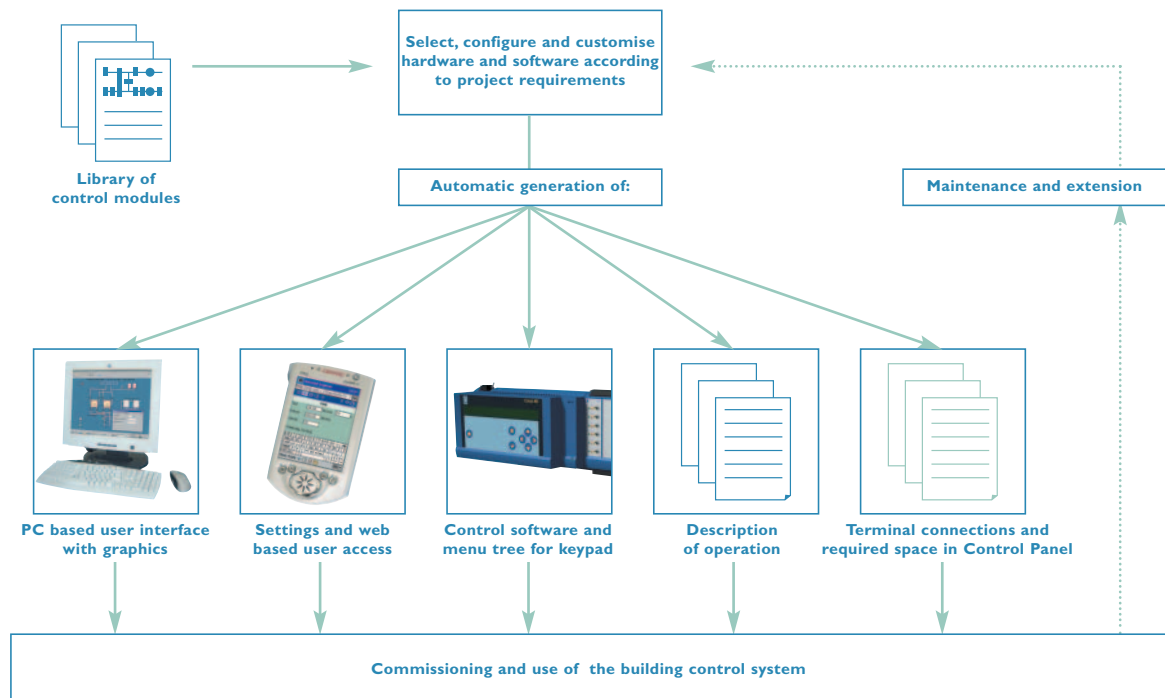
Priva Top Control is based on a comprehensive library of freely configurable control modules for virtually every kind of equipment and installation found in a building. For example, there are control modules for heating, cooling, ventilation, heat pumps, lighting, solar blinds and legionella detection. Each module comes with graphics and detailed descriptions that adjust automatically to the selected configuration. For project-specific requirements, Priva Top Control has a powerful freely programmable graphic programming environment. As a result, complete building control systems can be implemented without having to know any specific programming languages. This in turn translates into systems that are very maintenance-friendly and can easily be put out to open tender - guaranteeing low life cycle costs.

Furthermore Priva Top Control is open and future-oriented. It is based on the latest developments in control technology, Internet technology and standards such as XML, BACnet, Echelon/LonMark, KNX/EIB, ModBus, M-bus, ODBC, SQL and OPC.

Choosing Priva Top Control means choosing greater freedom and reliability.



Working the smart way



The Priva Top Control method for an integrated building control system.

The right application - for every use

Here are just some of the applications included in Priva Top Control:

- **TC Vision:** the PC application for local and remote control, with graphics, event and data logging, energy and runtime tables, documentation and alarm overviews.
- **TC WebVision:** the webserver application for web based access with every visualisation option to control all your Priva Top Control systems remotely using the intranet or the internet; you only have to maintain files at one location.
- **TC WebDisplay:** text-oriented web based access from PC or PDA that communicates directly with the embedded webserver in your controller.
- **TC Remote:** the PC application with a clearly laid out selection of variables and settings for personalised individual control. TC Remote featured as a pop-up window is always close at hand whenever you want to view or modify your personal climate settings.
- **TC History:** the application for long-term data logging that retrieves and stores selected data on-line in an open database.
- **TC ServeCenter:** the PC application for alarm management that monitors your local Priva building management system as well as Priva installations in other locations via modems or the company network. If necessary, TC ServeCenter informs the on-call engineer via an email or a text message to a mobile phone.
- **TC OPC Server:** this application makes information from your building control system available to other PC applications in a standardised way.
- **TC OPC Client:** interfaces with third-party equipment via TC WebVision and TC Vision.
- **TC Select:** the Priva Top Control engineering application with hundreds of ready-to-use control modules and graphic programming options for creating and maintaining a building control system in an integrated way.

TC Select

The smart method - from specification to completion

The Priva method is at the heart of the engineering application TC Select.

Thoroughly tested control modules

Priva Top Control is based on a wide range of control modules. For virtually every building control application, Priva has a suitable, thoroughly tested control module available. This saves a considerable amount of time, both in creating and commissioning your building control system.

Consistent operation and design

A control module contains the control, graphic user interface, settings and documentation. When control modules are added to a project, this immediately results in a well organised, accessible navigation system. Thanks to Priva Top Control, building control systems always have the same construction, even when they are created by different engineers.

Configured to meet specific requirements

Every building has its own installations and control strategies. Many years of experience have gone into the Top Control control modules. Simply by configuring the control modules, you can customise them for your building.

Linked together to form one system

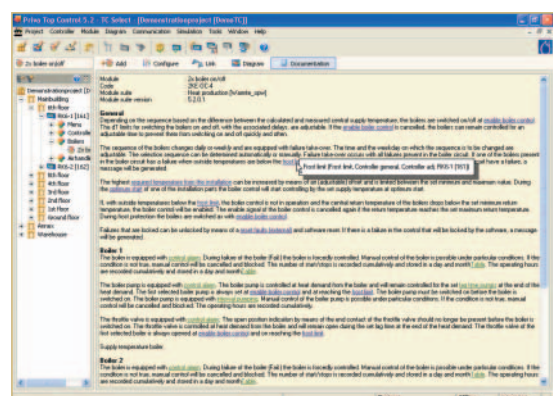
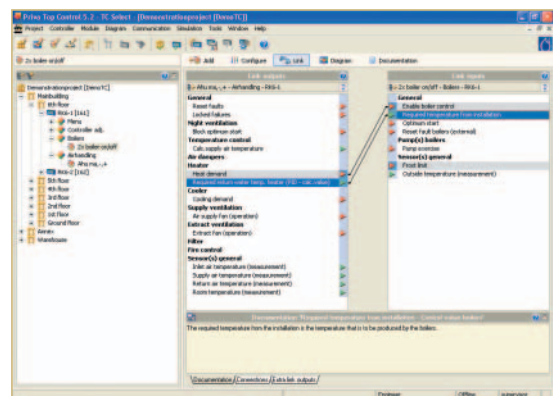
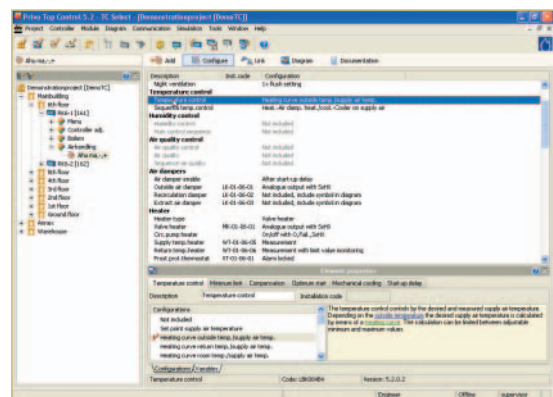
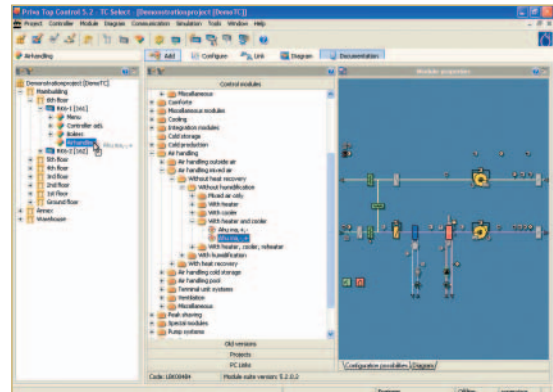
Just as wires connect the plant in your building, so Priva Top Control links all the control modules into a single system. This is quickly generated in a clearly laid out graphic form.

Off-line simulation of control strategy

A controller can be simulated to test the control strategy off-line, at no risk to your own installation.

Detailed documentation

Each control module comes with extensive documentation for engineers and end users. The documents describe how the modules work and track changes in the configuration, connections and current values.



Complete support for the hardware

Complete integration with Compri HX

Priva Top Control fully supports Priva controllers. The right type of controller is determined depending on which inputs and outputs are needed. In turn, the software is optimised depending on which kind of controller is used.

Independent of field equipment

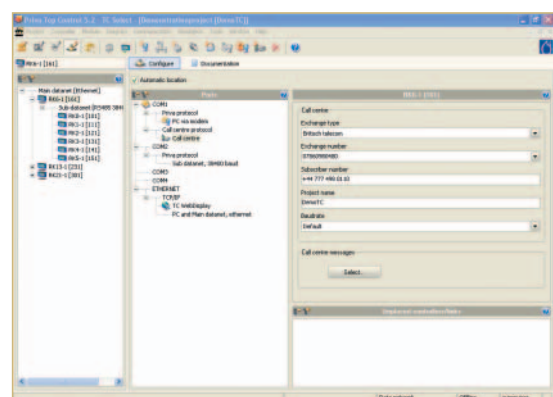
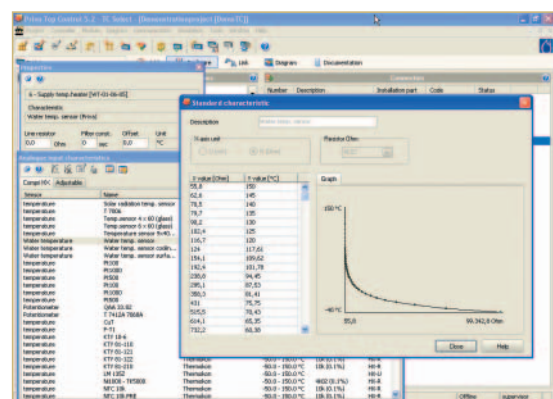
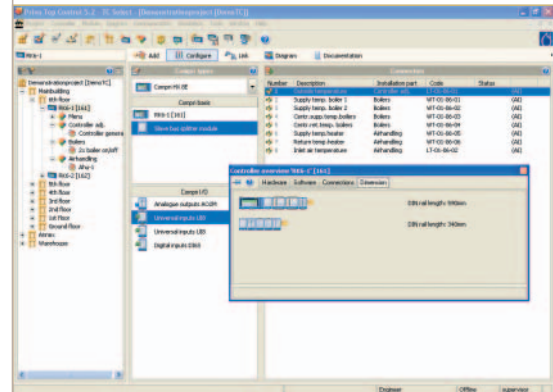
Particularly in renovation projects, you want to be free in your choice of sensors and actuators. Priva Top Control provides this freedom. Thanks to the broad selection of sensor characteristics, which can also be user defined, every type of field equipment can be used. And due to smart filtering, shielded cabling is not even necessary, which results in significant savings by re-using existing wiring.

Communication made easier than ever

Whether you want to exchange information between the various controllers, or control your systems remotely, send e-mails or report alarms via SMS – a few clicks of the mouse is all it takes. Furthermore Priva Top Control ensures that the data is safely transferred so that no information is lost.

Built-in data logging and run time measurement

The data collected from your installation is very valuable, which is why Priva Top Control always provides charts of all measurements and PIDs. Run time measurement can be made for various items of plant and energy consumption is recorded in tables. Because the data is saved in the controller, you always have access to the most recent information, even when the PC has been turned off.



More freedom, more reliability

The entire structure of the building control system and its configurations are recorded in the project database. This database contains all the information needed to control, modify and extend a system.

The end client is and remains exclusive owner of project source files

According to the Priva Top Control philosophy, the database with the project data is and remains your property. You can also have access to all the Priva Top Control tools that are needed to create a building control system. This guarantees the continuity of your installation.



Extensive integration options

XML
BACnet
KNX/EIB
Echelon/LonMark
Micros-Fidelio
Grundfos
Danfoss
ModBus
M-bus

In addition to the building control system, an intelligent building contains a great deal more equipment that could also be integrated. To that end, Priva Top Control offers a wide range of standard and product-specific protocols.

The universal link makes a protocol maintainable

To allow control information to be exchanged with third-party equipment, Priva Building Intelligence has developed universal links. As a result, control engineers can concentrate on the control relationship between the various pieces of equipment without having to know all the exact protocol-specific details.

Flexibility is standard

No two users are the same; no two installations are identical – which is exactly why a Priva Top Control building control system can be modified and extended.

Edit and add graphics

The graphics included in the control modules are simple to customise. As a result, the graphics are easy for you to use and recognise.

Photos and dynamic symbols

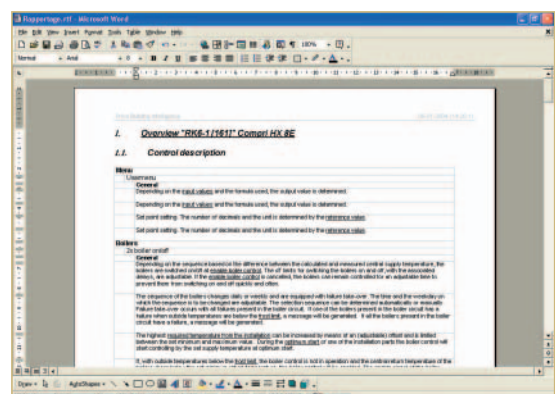
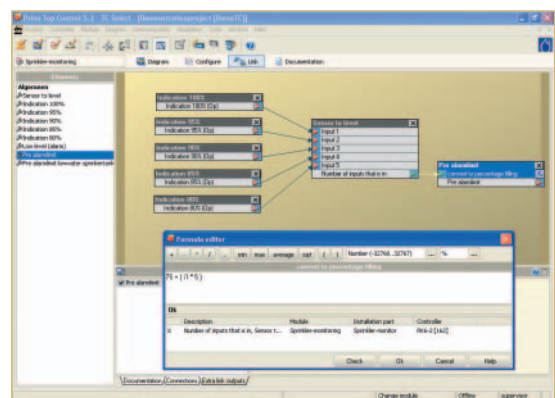
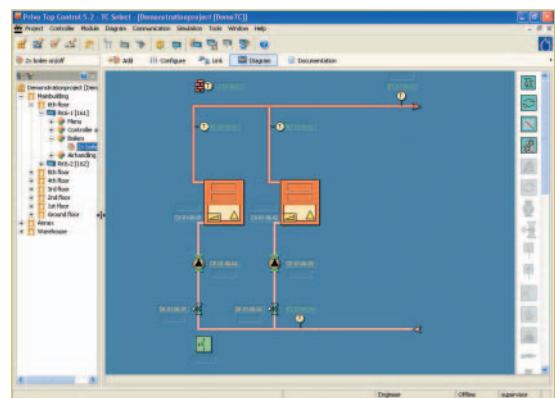
Photos and floor plans can also be included in a diagram. In addition, dynamic symbols can be used; depending on a particular variable, they can vary in colour, shape or size. This makes the information more accessible and optimises navigation through your project.

Graphic programming with elements

In the unlikely event that the functionality you want, often project-specific, is unavailable in a control module, it can be easily programmed. In a graphic environment, complete function blocks, the elements, can be combined with just a few mouse clicks. Formulae are used to convert values into units or magnitude.

Automatically generated documentation

Whether you want to know the configuration of links between the control modules, or what inputs and outputs are used on the controllers, or you want a complete description of operation, Priva Top Control can generate a text document for you that contains all the desired information.



Choose the method of access that suits you best

Priva Top Control offers various options for accessing your installation, with Priva hardware or with a PC or PDA with Microsoft Windows®, remotely or on-site.

Each project includes TC Vision license

Because of the many graphics provided, your front end package can be implemented in no time at all. One user license for TC Vision, the PC application for control and monitoring, is therefore supplied as standard with every project, both for local access and remote access via a modem.

More flexibility, more reliability

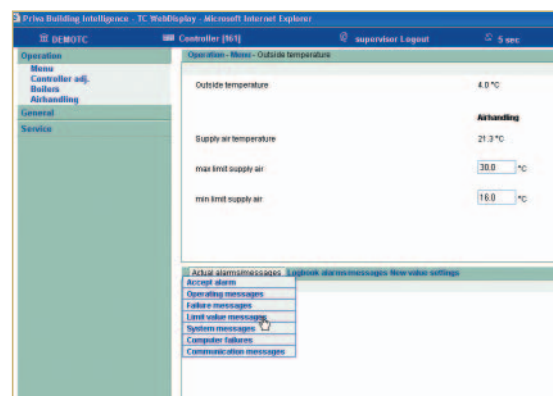
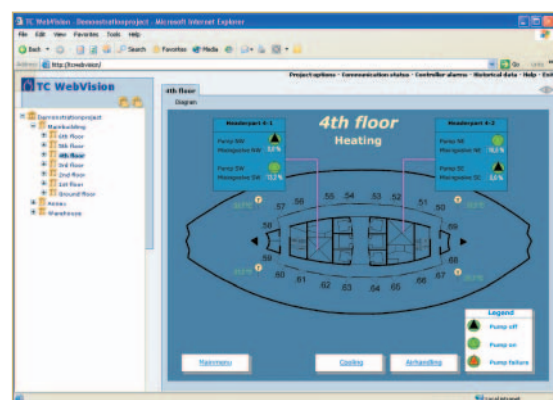
Thanks to modern webserver technology, you are no longer bound to one location to operate all your building control systems. Using TC WebVision and Microsoft Internet Information Services, a web browser provides you with all the information from your installation, including all pictures, graphics and data logging. Because standard Scalable Vector Graphics (SVG) is used, this method is as easy as using the TC Vision front end package.

Mobile with the PDA

With a web browser you can gain access to the TC WebDisplay, an embedded web server in the Compri HX controller. It provides full access to all control and service settings. TC WebDisplay also works perfectly with your Pocket PC or PDA, offering access via a Wireless LAN.

Secure user management

Before you can manage your installation, you have to log in to the system. For each user, you can indicate the level at which settings may be changed. In addition, all changes to settings and time schedules by any user are recorded in an event log in the controller – a safety measure.



Priva Top Control - a proven method

Every year, thousands of building and climate installations are automated by means of Priva Top Control; from gyms to museums, from theatres to office complexes, from offshore platforms to production facilities. The following is a selection of completed projects in Europe:

UK and Ireland: John Lewis plc, PLACETO EAT, Cribbs Causeway, Bristol - Howmet Castings, Exeter - Renishaw plc, Production Facility in Woodchester - Petherton Road Day Hospital, Bristol Healthcare Trust, Bristol - Lancaster University, Accommodation Blocks, Lancaster - Morley High School, Sports Hall, Leeds - Sprinter Leisure Centre, Prestwood, Great Missenden **Germany:** Steigenberger Airport-Hotel in Frankfurt am Main - Tech Data Center in München. **Portugal:** Alfândega da Fé City Hall - Hospital Santa Maria in Lisbon **Danmark:** Rudehøj Efterskole in Odder.



PRIVA Building Intelligence

Turn control into intelligence

Priva Building Intelligence offers innovative technology for intelligent buildings where people can feel comfortable and work undisturbed in an ideal environment.

Within the international Priva Group, some 575 people work non-stop on developing practical technological innovations for the industrial and service sectors. Time and again these individuals have been prepared to take on this pioneering role - a characteristic that undoubtedly applies to Priva Building Intelligence in Delft, the Netherlands, as well.

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Since 1982, Priva Building Intelligence has built up a wealth of knowledge and experience in control technology. Because of this specialisation, our systems provide excellent opportunities for seamless integration of climate, energy, lighting and sun protection into one system with subsystems such as fire, security and access control, for any and every kind of building. Transparent and future-oriented, constructed so meticulously that the building seems to think for itself – true intelligence.

Thanks to our innovative, customer-focused approach, we hold a solid position in the building automation market. Priva Building Intelligence is represented both nationally and internationally through our own offices and partners.

When installing our systems, we work together with our Priva Partners: professional Priva-certified installers and system integrators who are thoroughly familiar with our hardware and software products. Together we offer you the ultimate in effectiveness and guaranteed quality and service.

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