

Compri HX and Comforte CX

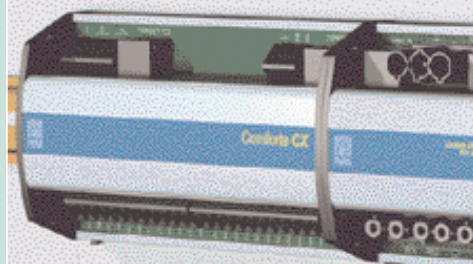


The smartest controllers for intelligent buildings

Your building needs a control system that gives you both freedom and security - nothing less will do. A system offering a number of unique features.

- Quick to implement, easy to maintain and infinitely expandable.
- Usable with a wide range of field equipment.
- Tested, efficient and energy-saving controllers with built-in expertise.
- All the facilities you need for local operation and remote control.
- An open system; with standard protocols for transferring data.
- Using the latest Internet technology.

The Compri HX main plant controller and the Comforte CX room controller provide the basis for just such a building control system. Reliable and ingeniously designed, developed by Priva Building Intelligence.



PRIVA Building Intelligence



Smart solutions for efficient building control

Priva Building Intelligence develops innovative technology for intelligent building control systems that leave nothing to chance. They are robust, efficient and energy-saving. They are based on three excellent products: the Compri HX, the Comforte CX and Priva Top Control.

Compri HX - the main plant controller

The heart of the building control system, containing the control technology, is the Compri HX main plant controller. Its powerful microprocessor, extensive memory and numerous security features guarantee reliable operation for many years. The embedded Internet technology of the Compri HX supports browser operation, alarm reporting by e-mail and data transfer via XML. The main plant controller uses existing communication facilities: via modem, the company network or even wireless LAN.

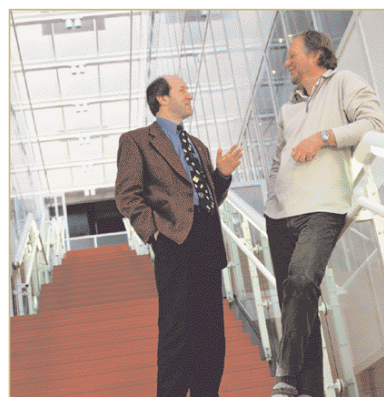
Comforte CX - the individual room controller

Where a lot of rooms need to be controlled individually, Comforte CX is the ultimate answer. This compact room controller is quick and easy to install, in conjunction with the room unit Comset CX. With clever control strategies and user-friendly operation, the Comset CX provides a flexible solution wherever individual comfort is required.

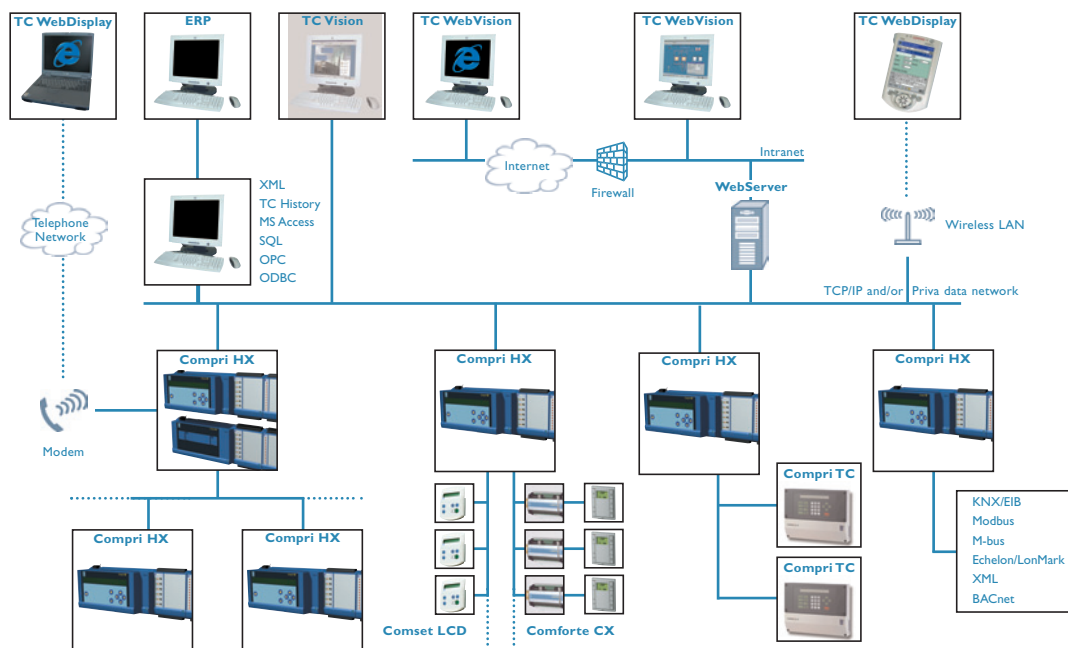
100% Priva Top Control

The control technology and operating software for the Compri HX and Comforte CX are programmed, configured and maintained with Priva Top Control. Priva Top Control is a complete software family for intelligent building control, where applications work closely with one another and with the Priva controllers. Working in a fully integrated environment, your building is automated and controlled as efficiently as possible.

Priva Top Control is based on a wide range of user-configurable control modules and a powerful and flexible graphical programming environment. Combining and programming the control software automatically creates the basis for many possible types of operation. This produces installations which are very easy to maintain and can be set up by the contractor of your choice, guaranteeing low costs throughout the service life of the system. Choosing Priva Top Control hardware and software means greater freedom, greater security.



Ready for any network environment



Extensive integration, communication and networking capabilities

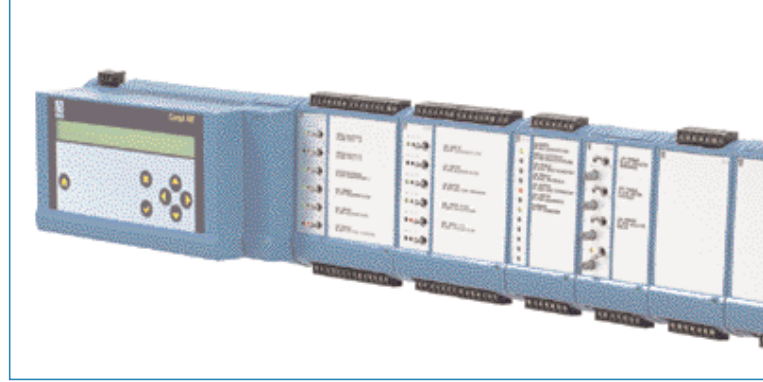
The right system for any application

Integrated products from Priva Building Intelligence offer a solution for every situation. Here are some examples:

- **Offices:** Controlling the central HVAC system with its boilers, chillers and air-handling units, sun blinds and lighting in each room. Each person can set their own working climate using the PC application TC Remote. The whole system is remotely controlled and maintained via a modem link.
- **Hotels:** Every room is controlled with a Comforte CX. With the Comset CX, guests can express select their climate preferences - though this may not be necessary, because, thanks to the link with the hotel reservation system, the room will already be comfortable by the time they arrive.
- **Hospitals:** In addition to the central air-conditioning systems, the climate in the operating theatres can be accurately controlled as well. Technical staff are informed via the Digital Equipment Cordless Telephone (DECT) network and have access to the control system from any location thanks to the web server application TC WebVision.
- **Retail chains:** Both lighting and temperature can be controlled. Using the existing network that connects all the sites to one another; the temperature in cold stores is recorded and monitored from a central location so as to guarantee product quality.
- **Conference halls:** Faults in the building control system are reported by the alarm management application TC ServeCenter. Graphic duty schedules are used to report faults via the paging system, GSM or e-mail to the engineers, and via the ODBC link to the facility management system, where the messages are archived and worksheets can be generated.
- **Storing energy (heating and cooling):** Free heating and cooling can be stored in the ground for later use. For example, summer warmth can be stored for use during the winter; while cooler winter temperatures can be utilized in the summer.

Compri HX

A powerful controller



The Priva Compri HX is an ultra-modern, user-programmable main plant controller for managing small to very large control installations.

Smart, modular system structure

A Compri HX main plant controller is designed around a basic module, input and output modules and an optional display pane. This means it can be fully customised to meet your requirements. The basic module is selected on the basis of the overall number of inputs and outputs, the required computing capacity and the communication facilities. The cabling is connected to the physical installation via the input and output modules.

Quick installation and short service times

The selected modules simply click on to the DIN rail, are pressed together and connected using plug-in connectors. No jumpers or dip switches are needed to address the input and output modules, which means costly mistakes are avoided. This system structure allows prefabrication methods and guarantees short service times.

Works with any field equipment, without shielded cabling

Virtually any sensor or actuator can be connected to the high-resolution and highly accurate analog inputs and outputs. Characteristics are available for most common field equipment, but user-defined characteristics can easily be created with Priva Top Control. Thanks to the use of a filter program, screened cabling does not have to be used. In renovation projects, this provides considerable benefits as the existing cabling and sensors can be used.

Integrated intervention for emergency and service operation

Various output modules are equipped with integrated intervention to provide a means of intervening in the control system. Separate manual operation is not necessary, so that less space is taken up in the control cabinet and no time is spent on installation. Also, the status of each manual override switch can be interrogated by the software, so that it can never be forgotten after use. Intervention works independently of the basic module and there is a separate power supply for each module so it can be connected to an emergency power supply.



Communicative, open and futureproof

Each Compri HX is equipped with several RS232 and RS485 communication ports. In addition, the Compri HX 8E has an Ethernet port with which it can be connected directly to your TCP/IP network. Via these ports, the Compri HX communicates with the control system on your PC and - thanks to the built-in web server - even directly with your browser. In larger building control systems, several main plant controllers can be combined into a single network, allowing them to work together and exchange data. Through a modem or corporate network, service engineers can be called on via SMS or e-mail.

Supporting the latest protocols

Equipment can be connected directly to the Compri HX with standard protocols such as XML, BACnet, KNX/EIB, Echelon/LonMark, M-bus or Modbus. More product-specific links with equipment from makers such as Grundfos, Danfoss, OnGuard or Micros-Fidelio are also possible. The other equipment from Priva Building Intelligence, such as the Comset LCD operating unit or the Comforte CX room controller, can of course be integrated seamlessly into the system. Even links to older generations of main plant controllers are supported. The Compri HX offers you the certainty of continuity.



The Compri HX in detail

Compri HX Basic Module			
	Compri HX 3	Compri HX 4	Compri HX 8E
Supply voltage	24V AC	24V AC	24V AC
E-mail option	Yes	Yes	Yes
Browser operation and XML interface	Yes	Yes	Yes
Serial ports	3	3	4
Ethernet port	No	No	Yes
Number of inputs and outputs	Maximum of 16	Maximum of 92	More than 250
Number of HX input and output modules	None	Maximum of 4	Maximum of 40
Digital inputs on basic module	3	3	None
Universal inputs on basic module	6	10	None
Relay outputs on basic module	5	5	None
Analog outputs on basic module	2	2	None

Compri HX Input and Output Modules	
DI12 digital input module	12 Digital inputs
DI12S / DI6S digital module with signalling	12 / 6 Digital inputs and LED signalling
UI8 universal input module	8 Universal (analog of digital) inputs
RO8 / RO4 relay output module	8 / 4 Relay outputs
RO6MS output module with intervention	6 Relay outputs with intervention, 6 x 2 User-definable digital inputs and LED signalling
RO6MOS and RO3MOS relay output module with intervention	6 / 3 Relay outputs with intervention 6 / 3 x 2 Digital inputs and LED signalling
SO8 triac output module	8 Solid-state triac outputs
AO4 analog output module	4 Analog outputs
AO4M / AO2M analog output module with intervention	4 / 2 Analog outputs with intervention
BSI bus splitter module	For splitting the internal I/O bus
XMI expansion module	For expansion, if more than 10 I/O modules on the HX 8E

Comset LCD	
To be used in conjunction with the Compri HX	Compri HX
Control Function	Programmable
Display	1 x 16 / 2 x 16 Characters
Temperature measurement	Yes

Compri HX - an obvious choice

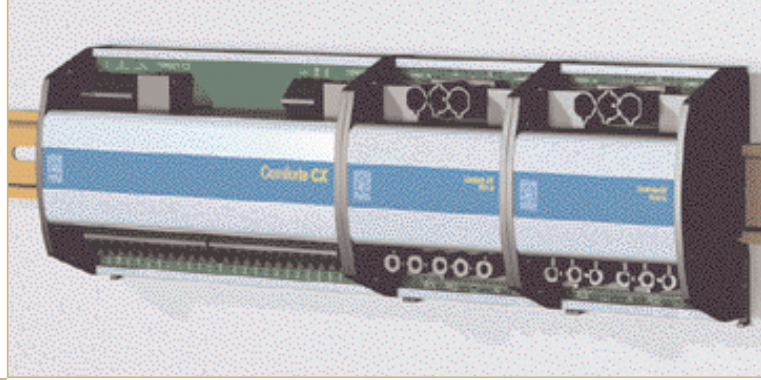
Every year, thousands of building and climate installations are automated by means of Priva Top Control; from gyms to museums, from theatres to office complexes, from offshore platforms to production facilities. A selection of other customers using climate control by PRIVA Building Intelligence are:

United Kingdom and Ireland: UK Atomic Energy Authority in Culham, Oxfordshire - Marks & Spencer; Kidderminster & Rotherham - Baker Tilly, London - Brewery Wharf, Leeds - Reading Blue Coats School, Reading - Renishaw plc Production Facility in Woodchester - Sprinter Leisure Centre in Prestwood, Great Missenden - Lancaster University, Accommodation Blocks, Lancaster; Howmet Castings, Exeter. **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. **The Netherlands:** Beurs World Trade Centre in Rotterdam.



Comforte CX

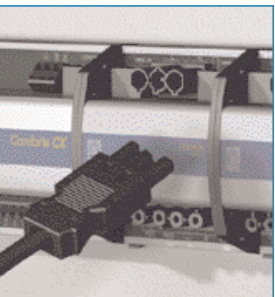
Control your own climate



The Comforte CX is a compact digital control unit for premises such as offices, doctors' surgeries, prison cells or hotel rooms. It ensures an individual and comfortable climate in each room.

Its modular design allows it to be installed quickly and safely

Thanks to its modular design, the Comforte CX can be easily tailored for the tasks to be performed. It consists of a basic module, a power supply module, various output modules and a wide range of control strategies, including VAV, fan coil and chilled ceiling. Thanks to the compact format and ingenious use of low-voltage connectors (Wieland GST18), the Comforte CX can be installed quickly and easily in the space above the ceiling, without any external housing.



Integration of air conditioning, lighting and sun protection

Besides heating, cooling and ventilation, the Comforte CX can also control lighting and sun blinds. This integration facility provides better coordination of control and greater individual comfort. Only one operating unit is required for control purposes, making it easier for the user, saving space and reducing installation costs.

BACnet connects the systems

The Comforte CX is a native BACnet Application Specific Controller (B-ASC) and communicates with other Comfortes and the Compri HX (the higher-level, central main plant controller) via a CX network based on BACnet MS/TP. Communicative room control units have significant advantages, such as the saving on energy costs, since a central reverse pulse prevents rooms being left with too high or too low set points and greater comfort due to the fact that rooms are pre-heated through a time-scheme at a central location. In addition, the network allows you to read, archive and set values from a central point. Since the Comfortes can communicate with each other, master/slave control systems can be implemented for air-conditioning, sun protection and lighting.

One unit with maximum versatility

The many control strategies within the Comforte CX are easy to activate and configure, so that a single control unit can be used for a wide range of different types of installation. Also, the system and control software can be modified via the CX network, so you can take advantage of the latest innovations in the field of control technology.

The attractively designed Comset CX is a smart room unit giving you access to all functions of the Comforte CX control unit.

Comset CX room unit

Compact, accessible and informative

The well-organized display and robust keys with dedicated symbols clearly show the functions and status of the control unit. The Comset CX is flexible and easy to use, even for master/slave installations. Also, if the application is modified, the key assignment can be updated so that you always have the correct information to hand and operation remains logical and easy to use. With the Comset CX, it's easy to set the climate just the way you want.



De Comforte CX in detail

Comforte CX Basic Module	
Supply voltage	24V AC
Interface with Compri HX	BACnet MS/TP (RS485)
Connection with Comset CX	RJ45
Number of inputs and outputs	Maximum of 26
Number of CX output modules	Maximum of 4
Digital inputs on basic module	3
Analog inputs on basic module	2
Digital outputs on basic module	3 Solid-state triac outputs
Analog outputs on basic module	2

Comforte CX Input and Output Modules	
Power supply module 230/24Vac 24VA PS230-24*	Power supply module
Lighting module 2 x lighting RO2-1L*	2 Digital outputs for 2 lightinggroups on/off
Sunshade module 2 x sunshades RO2-2*	4 Digital outputs for 2 sunshades up/down
Fan module 1x fan coil unit RO1-3*	3 Digital outputs for 3-speed fan
Triac output module SO4-1	4 Solid-state triac outputs

* The modules are equipped with Wieland connectors (GST18 Type) or spring terminals (SC type)

Comset CX	
To be used in conjunction with	Comforte CX
Control function	Programmable
Display	LCD with numbers and symbols
Temperature measurement	Yes

Many satisfied customers use Comforte

The Comforte CX combined with the Comset CX room unit provides a flexible control system which can be used just as easily in small offices as in very large building complexes.

The building of BDO Accountants & Adviseurs in Utrecht has 175 flexible work areas. In addition to this flexible structure, the building also provides climate control for each work area, which can be controlled individually via the PC. The system also provides individual control of ventilation, sun protection and lighting.

Other clients who use air-conditioning control systems from Priva Building Intelligence include: Kantoor Benelux Staete Utrecht, Kantoor Holland Rail Consult Utrecht, Ahoy Rotterdam Rotterdam, Groene Hart Ziekenhuis Gouda and Schaatscentrum De Uithof Den Haag.



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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