Intelligent individual room control of the future. Room temperature control WEB
PRINETO room temperature controller WEB
The system behind the perfect connection.

With the PRINETO wireless RTC WEB, IVT is presenting a new, universal individual room control system with complete equipment for heating and cooling applications. Even the basic version of the system fulfils all the requirements for perfect user convenience.

Numerous inputs and outputs as well as measuring, control and regulation functions guarantee optimum, energy-efficient interaction with external devices and systems. The main area of application for the system is single and multiple family homes, functional and administration buildings as well as hotels and schools with central management requirements.
Intelligent heating control with the EZR Manager

The base station is integrated in the home network via the optional Ethernet interface. The software interface of the EZR Manager permits convenient access to all system settings and functions via PC, laptop or smartphone with the system in service – making room-by-room operation, programming, setup and status monitoring child’s play. The generic smartphone application saved in the web server of the Ethernet versions also permits mobile access to convenience settings such as holiday or party function.

Characteristics at a glance

- The system components communicate wirelessly (868 MHz wireless technology) or 2-wire BUS
- Intuitive operation, central programming, straightforward initialisation
- Intelligent regulation saves up to 20% energy
- Various different inputs and outputs for interaction with external devices / systems
- Optional Ethernet interface for simple, dedicated room operation, programming and setup of the individual room control system as well as visualisation of status via PC or smartphone.
- MicroSD card slot for system upgrade and uploading system parameters
- Bidirectional wireless solution for secure communication between the system components
- Integrated system clock
- Individual programming and setting of every heating zone
- LC display with information about operating states and functions
- Perfect interplay of control systems over several storeys through serial bus (syBUS) or 868 MHz wireless technology
- Customer-specific hardware and software solutions
- Complete equipment for optimum energy management
- Remote servicing and remote diagnostics option
- Smart Start function
- Now also with a new XML interface for simple integration in external systems
- Also compatible with KNX application via the home network

Version with Ethernet interface for integration in the home network and global access via the internet
Modern architecture demands control elements that can be integrated harmoniously in present and future interior design. A timeless, classic design that promises quality and offers users simple, intuitive operation at the same time has been achieved with the room consoles of the RTC WEB.

The room consoles make both individual parameters for each heating zone and global functions and settings available to users in the twinkling of an eye. They can access convenience functions such as holiday, party and absence separately and thus influence the control workflow as required.

The use of high-quality materials and technologies guarantees long-term satisfaction with the system. Customer-specific differentiation options for individual market presence are no problem.
**Characteristics at a glance**

- **Generous LC display** (60 mm x 40 mm)
- **Optional version:** Room console display with - remote sensor - design screen
- **Wireless version:** Battery life > 2 years
- **BUS version:** 2-wire BUS including power supply and display lighting
- **Scratch-proof plastic**
- **Convenient operation using a rotary button (turn-push mechanism) with fine, dynamic detent**

**Functions and settings for users such as**

- Day, automatic, absence, ECO mode (night status), party function, holiday function with date specification
- 4 pre-set lifestyle time programs
- Setting range for target room temperature can be limited
- Date and time with automatic summer/winter time switchover
- Information about low battery level
- Controller switch-off (frost protection activated automatically)
- Operating lock for public buildings

**Settings for specialist technicians (code-protected) such as**

- Selection of heating type (e.g., control according to 2-point or PI behaviour per heating zone can be selected)
- Active switchover of heating/cooling activation
- Frost protection temperature setting
- Block heating/cooling
- Parameters can be set for pump/boiler output
- Smart Start function
**Function**
The room console with and without display is the operating and control unit for the system. It is used for interaction between the user and the installer with the base station. The system guarantees the bidirectional transmission of data between the devices, the secure transmission of room and operating status data as well as convenient system programming.

**Room console with display**
Both system and room-specific programming and settings can be implemented using the room console with display. The LC display with its simple symbols is easy to read from any position. Operation and navigation are by means of the rotary button with high-quality turn-push mechanism and precisely dynamic detent, familiar from the automotive sector. Special convenience functions such as holiday, party and absence are available. These influence the normal operation workflow.

**Numerous variants for every use**
The room temperature is always recorded using an internal sensor. The room console with display is additionally equipped with a wired floor sensor for measuring the floor temperature. In addition, there is a version with humidity sensor available. The analogue room console is available in the versions “standard” and “room sensor”.

**Variants**

<table>
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<tr>
<th>RTC WEB digital</th>
<th>RTC WEB analogue</th>
<th>RTC WEB sensor</th>
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<tbody>
<tr>
<td><img src="image1" alt="RTC WEB digital" /></td>
<td><img src="image2" alt="RTC WEB analogue" /></td>
<td><img src="image3" alt="RTC WEB sensor" /></td>
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Connection for:
- Remote sensor / floor sensor
- External humidity sensor
Navigation
The rotary button permits convenient navigation through the intuitive menu structure of the room console. Turning the button clockwise or anti-clockwise takes the user through the various functions, these are activated, deactivated and selected for further parameter setting by pressing the rotary button.

Floor temperature monitoring
The digital room console monitors the floor temperature via a wired remote sensor. This prevents the floor becoming cold when the room is heated by a wood stove for example.

With LC display – keeping tabs on everything
The PRINETO room temperature controller WEB digital stands out thanks to its functional, pictogram display. The systems, which are understood internationally, guarantee intuitive operation. The three menu levels make the functions available that the user or installer needs.
The PRINETO RTC WEB base stations are the intelligent control and connection units for central information processing and communication with all system components of the PRINETO RTC WEB system. They record and evaluate numerous measuring data for individual, energy-efficient temperature control in every room and maximum user convenience.

The sophisticated system software fulfils all requirements of current and future systems even in its standard version – adaptations and updates for a technologically changing environment are carried out conveniently by means of a MicroSD card slot.
Characteristics at a glance

- Connection of up to 18 PRINETO actuators
- Status displays via LED: 9 system LEDs / 1 LED per zone
- Different control algorithms can be set per heating zone
- Variants with Ethernet interface
- Multi-storey solution – pairing of up to 7 base stations wirelessly and / or by bus
- Control direction (NC/NO) can be configured in the factory or on site
- Reduction (ECO mode) room-by-room via integrated system clock or centrally via an external switching signal
- Operating modes (frost protection, heating, cooling, ECO, automatic, emergency mode)
- Pilot function for heating and cooling
- Boiler output
- Dewpoint monitoring
- Parameters can be set for valve protection function at all outputs
- Integrated pump module for which parameters can be set, incl. pump protection function
- Connection for a safety temperature limiter
- Accessories such as external aerials or repeaters on request

Illustration shows:
- Base station 8-channel radio

All-in-one: Complete equipment for heating and / or cooling systems even in the standard version

Tried-and-trusted cable routing and strain relief

Power consumption: 24 or 230V in 4 or 8 zones
PRINETO room temperature controller WEB base stations
High convenience level thanks to intelligent technology

Function
The PRINETO RTC WEB base stations record and evaluate numerous measuring data for individual, energy-efficient temperature control in every room. The safe, bidirectional communication of the assigned room temperature controller, base station and connected actuators is guaranteed by 868 MHz wireless or 2-wire BUS technology. Since the control characteristics can be set, different heat sources such as convector heaters and radiators can be combined and then controlled in parallel in one system.

In compliance with DIN EN 60730-1:2009-6
The standard-compliant tension relief means there are no restrictions concerning the mounting location. Installation with top hat rail is either directly on the wall or in the heating distribution cabinet – separate tension relief is not required.

Smart Home ready
The Ethernet versions of the base stations not only make control of the PRINETO RTC WEB possible locally via a home network and globally via the internet. Thanks to Smart Home ready, the system can also be integrated conveniently in existing home automation systems via an open XML interface. In this case, control takes place discreetly via the home automation. Existing components such as door / window contacts can easily be used to control the RTC WEB: system.

Flexible extension and updates

Thanks to the system’s flexible hardware and software structure, future system extensions are no problem whatsoever. Adaptation and updating of the software takes place via the integrated MicroSD card slot, thus integrating new features and components in the system in the twinkling of an eye.

PRINETO wireless RTC WEB: system with Ethernet
Monitoring and control by PC or smartphone via the home network or the internet for global access.

Multi-storey solution (wireless example)
Pairing the base stations for the multi-storey solution can either be via 868 MHz wireless technology or via the system bus syBUS or a mixture of the two.
MicroSD card slot

The base stations have a MicroSD card slot for firmware upgrades or for convenient and clear online parameter setting at the PC.

Ethernet interface (optional)
- Straightforward integration in the home network & global access
- Web-based application software “EZR Manager” for the convenient control and visualisation of statuses via PC or smartphone
- XML data exchange with any external systems

Perfect integration in home automation through XML interface

It is possible to integrate the RTC WEB system easily in higher-order home automation systems via the XML interface. The existing home network can be used for this (router, WiFi, switch etc.). Integration scenarios in building control systems and EIB/KNX applications can also be realised.

All-in-one – for all applications

Even the standard version of every base station is equipped for all heating and cooling areas of application. This makes choosing the right device easy from the word go.

Simple installation and commissioning

Clear systematic connection thanks to the tried-and-trusted cable routing and strain relief of the Alpha-Basic product family and the screwless plug/clamp terminal technology for fast, safe installation.

Everything under control

The current operating status and perfect functionality are always in view thanks to LEDs: operating state, NO/NC, fuse, pairing, cooling, system fault, alarm, heating zone, dewpoint.
As a partner company within the global Würth Group, we have made a name for ourselves internationally with our innovative solutions for sanitary and heating systems as well as solar systems.

Our philosophy is to achieve innovations on a high technical level – for the benefit and satisfaction of our customers.

When you install a PRINETO surface heating/surface cooling system, you can choose between our tacker system, our knobbed board system, thin-bed underfloor heating system and fixing rail for pipes of the dimension 14 and 17 mm, as well as our innovative system for the dry laying of underfloor and wall heating and cooling systems.

Questions?

Our technical technician partners will be happy to provide assistance with your request.