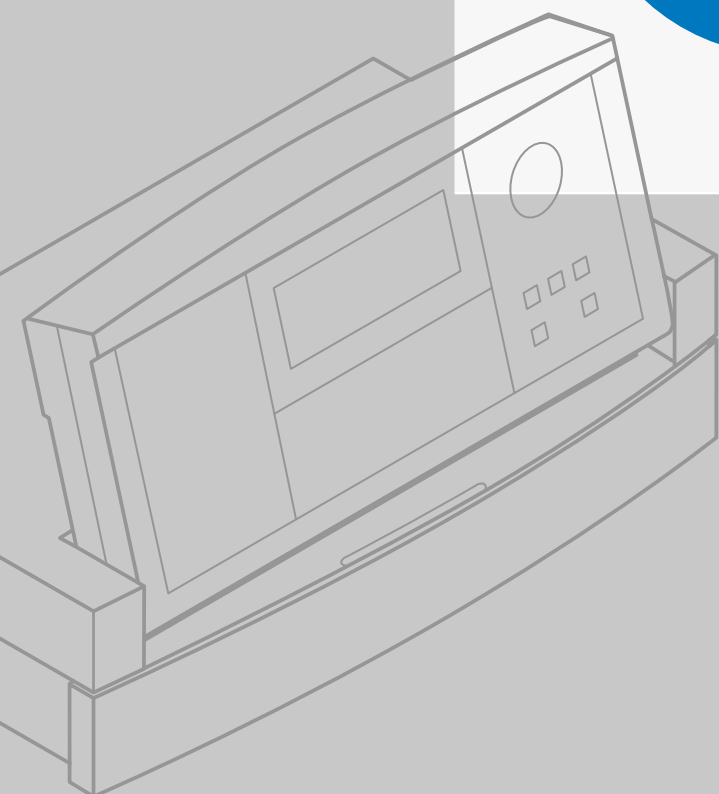
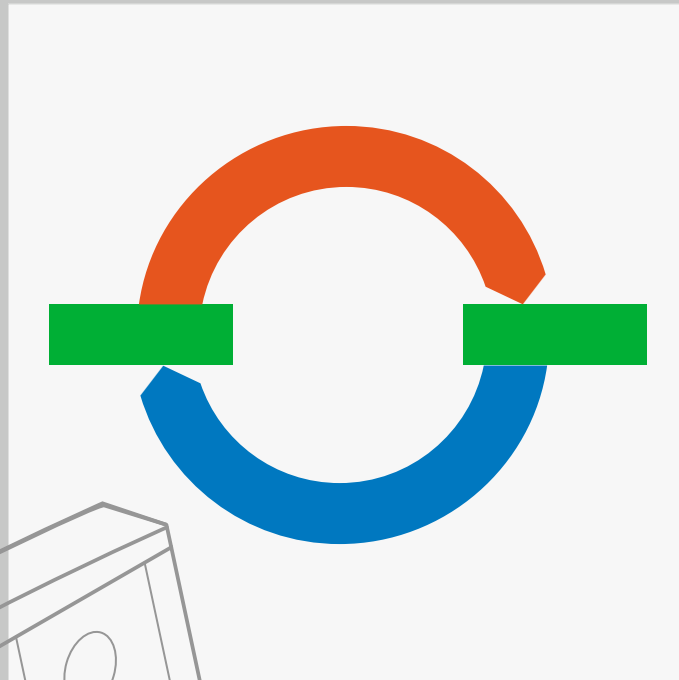


VITOTRONIC

Control systems for freestanding and
wall-mounted boilers

VIESSMANN



Economic energy management requires a cool head



Vitotronic: economic energy management for all system sizes

Vitotronic control units think for you – from installation through operation to maintenance. Whether used in an apartment, a detached home or in large systems, they offer the optimum solution for every need. As digital control systems with communication capability they ensure an economical and reliable operation of your heating system with well thought out electronic management.



For apartments, detached homes ...

One unit – all functions: The Vitotronic modular system



... or for large systems: Vitotronic offers the right solution for every need

One control system for all boilers

All Viessmann boilers, whether wall-mounted units, small freestanding boilers or larger boilers – are all controlled by one Vitotronic.

That means: common parts throughout the entire boiler range, standardised assembly steps and only a few universal spare parts. This substantially simplifies installation, maintenance and service.

The innovative Viessmann modular design combines the basic chassis and function units to create various control unit versions – in each case matching the boiler and the individual requirements.

Vitotronic control units are capable of communication. Beginning with the Optolink laptop interface for linking to a laptop for commissioning, maintenance and service, to remote monitoring and remote control of a complete heating system via the internet.

Real progress means technology designed with people in mind

As simple as a phone call

A new innovative control philosophy was developed for Vitotronic that is precisely matched to the needs of system users and heating contractors.

All controls were developed in accordance with the latest ergonomic principles and user-oriented requirements. Thus for example on the small boiler controls, the operating position of the display can be adjusted to individual preferences. Because for Viessmann convenience is an attitude – and not a problem, with Vitotronic.

Vitotronic 200/300 – controls that speak your language

The display itself is large, clear and (Vitoronic 200/300 only) even illuminated. But best of all: it speaks your language. In practical terms that means anyone can read and understand all messages. Users no longer need to plough through operating instructions as the programming unit is, in effect, its own set of instructions – in 16 languages.

Less to do, more convenience

Good control means less control. That means most requirements are fulfilled before you are even aware of them.

That is Vitotronic's strength. Without making a fuss it takes care of many functions which help you save money. The summer/winter change-over for example. Switching times can be adjusted at the press of a button. Set times for DHW heating and circulation pump operation can be automatically matched to modified timer programs.



Vitotronic speaks your language

Thinks and saves for you

Vitotronic also automatically calculates the optimum temperature for living space and boiler water. These are derived from the values of the outside temperature and, subject to individual system design, also from those of room temperature and heating water flow temperature. Naturally it also takes into consideration the time of day and season of the year, whilst individually controlling heating circuit pumps according to demand.

Convenience and economy functions

Simply with the press of a key or button, special programs can be set. For example, with the economy key for temporarily lowering the temperature during your absence. Or the party key, which deactivates night setback and leaves the heating system operating longer. And the holiday program can also be easily activated and saves heating energy and power when you enter the departure and return dates.

Convenient control with standardised plain text support

Vitotronic control units operate on three clearly defined control levels.

1st level: for the system user

The first control level caters for the requirements of the system user. After opening the flap or the drawer, a large rotary selector allows users to set the temperature higher or lower. Special conditions are accommodated at this level by simply pressing a few keys or buttons. For example the party key. Subject to system specification, this level may also include selection keys for various heating circuits.

2nd level: switching times/set values

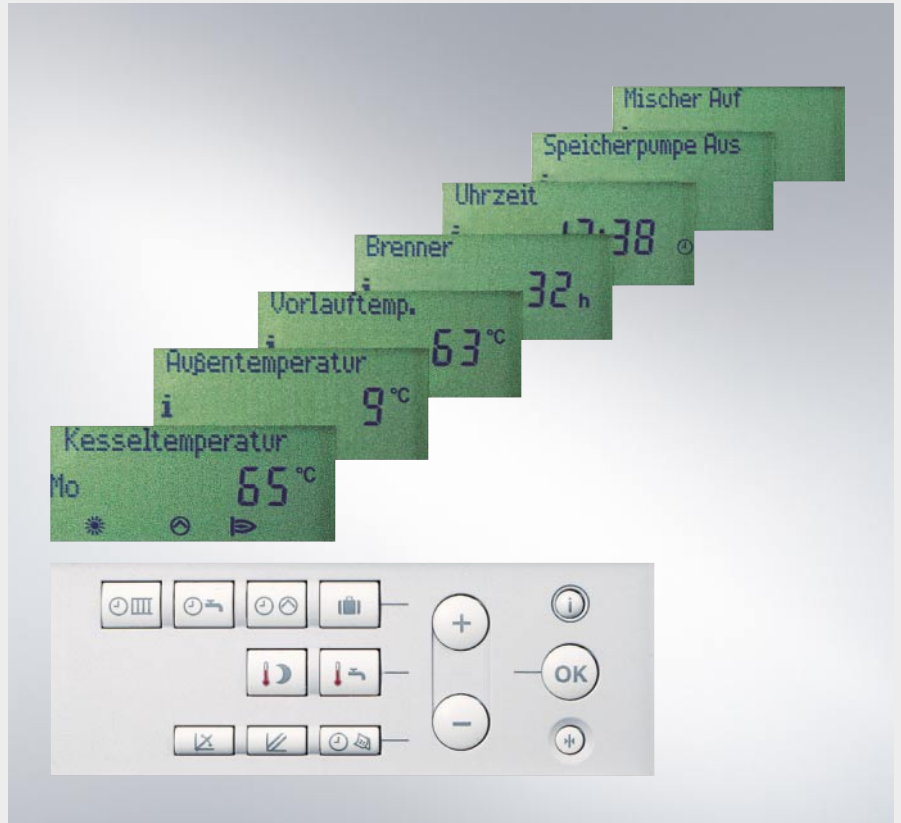
The second control level enables the setting of switching times and set values. Generally, these are the preserve of your heating contractor and, in exceptional cases, like the activation of the holiday program, for the system user. Access is provided by opening the flap.

3rd level: for heating contractors

The third or encoding level is reserved for heating contractors and is designed to set heating system parameters. All frequently required parameters are supported by plain text messages. The encoding addresses in the software are generally the same for all control unit versions.

Solar data always present

All Vitotronic control units can show current Vitotrol solar data, e.g. the collector temperature, directly in the display of the control element and optionally on the remote control.



Pressing a key at the second level lets Vitotronic inform you about all essential operating details



Plain text displays about maintenance requirements increase the operational reliability and heating system economy


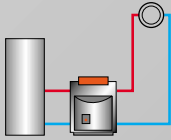

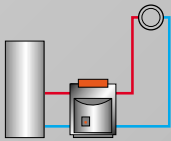

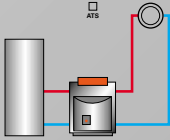

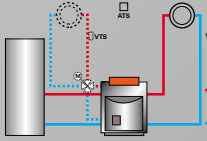

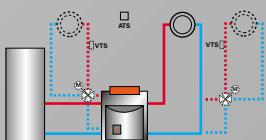


At the second control level, switching times and set values can be entered easily.

Vitotronic for freestanding small boilers

Functions	Vitotronic	Vitotronic	Vitotronic	Vitotronic
	100	150	200	300
• Easy operation through various control levels for system user and heating contractor	■	■	■	■
• Plug & Work function for automatic recognition and adaptation of sensors and system accessories	■	■	■	■
• Service interval display for demand-dependent maintenance	■	■	■	■
• Quick installation, commissioning and maintenance through Rast-5 plug-in connection system and integrated diagnostic system	■	■	■	■
• Optolink laptop interface for interrogation and setting parameters via laptop	■	■	■	■
• Digital time switch for selecting daily or weekly programs		■	■	■
• Automatic summer/winter changeover		■	■	■
• Illuminated operating program switches		■	■	■
• Party key, economy key and holiday program		■	■	■
• Easy legibility through large plain text displays			■	■
• Simple selection of heating circuits through separate heating circuit keys			■	■
• Fuel consumption display			■	■
• Program selection for controlled screed drying			■	■
• Vitohome 200 link			■	■
• Remote monitoring in conjunction with Vitocom 100		■	■	■
• Remote monitoring in conjunction with Vitocom 300				■

System overview

	Control unit for Vitola 200, Vitolaplus 300, Vitocrossal 300	Applications
<p>Vitotronic 100 Boiler control unit for constant boiler water temperatures, including integral diagnostic system and DHW thermostat.</p>	 Vitotronic 100	 1 heating circuit without mixer
<p>Vitotronic 150 Demand-dependent boiler control unit with fuzzy logic and DHW thermostat. Ideal for systems with directly connected radiator heating circuit (including thermostatic valves).</p>	 Vitotronic 150 with fuzzy logic	 1 heating circuit without mixer
<p>Vitotronic 200 Weather-compensated boiler control unit for systems with directly connected heating circuit or optionally with integrated heating circuit control for an additional heating circuit with mixer.</p>	 Vitotronic 200	 1 heating circuit without mixer
	 Vitotronic 200	 1 heating circuit without mixer and 1 heating circuit with mixer
<p>Vitotronic 300 Complete range of functions of Vitotronic 200 for the control of one directly connected heating circuit without mixer and two further heating circuits with mixer.</p>	 Vitotronic 300	 1 heating circuit without mixer and 2 heating circuits with mixer



Vitotronic control unit for Vitola 100/111, Vitogas 100 and Vitorond 200

Vitotronic – one versatile range for all applications

Vitotronic for wall-mounted boilers

Functions	Vitotronic 100	Vitotronic 200	Vitotronic 333
• Easy operation through various control levels for system user and heating contractor	■	■	■
• Plug & Work function for automatic recognition and adaptation of sensors and system accessories	■	■	■
• Service interval display for demand-dependent maintenance	■	■	■
• Quick installation, commissioning and maintenance through Rast-5 plug-in connection system and integrated diagnostic system	■	■	■
• Optolink laptop interface for interrogation and setting parameters via laptop	■	■	■
• Digital time switch for selecting daily or weekly programs		■	■
• Automatic summer/winter changeover		■	■
• Illuminated operating program switches	■	■	■
• Party key, economy key and holiday program	□	■	■
• Easy legibility through large plain text displays			■
• Program selection for controlled screed drying		■	■
• Vitohome 200 link		■	
• Remote monitoring in conjunction with Vitocom 100	■	■	
• Remote monitoring in conjunction with Vitocom 300		■	■
• Allows simple integration into building management systems without additional gateway		■	■
• Integral control unit for one mixer circuit		■	
• Integral control unit for two mixer circuits			■
• Direct connection of up to 32 Vitotronic 050 heating circuit controllers, each with up to three heating circuits		■	■
• Covers all known strategies for multi-boiler systems			■
• Enables the centralised operation of the entire system			■
• Optional use of commercially available LON equipment for further inputs and outputs. Coupling via standard LON tools		■	■

□ Only in conjunction with separate timer thermostat Vitotrol 100

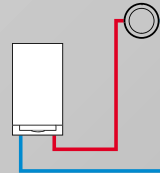
System overview

Control unit

Vitotronic 100

Room temperature compensated boiler control unit for constant boiler water temperatures, including integral diagnostic system and DHW thermostat.

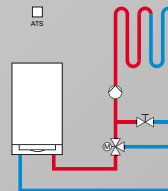
Applications



1 heating circuit without mixer with DHW thermostat

Vitotronic 200

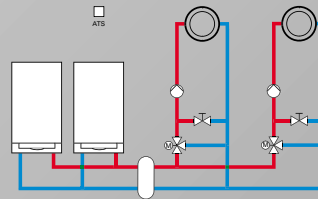
Weather-compensated boiler control unit for boiler systems with a directly connected heating circuit or in conjunction with mixer extension for a further heating circuit with mixer.



1 heating circuit without mixer and one heating circuit with mixer with DHW thermostat.

Vitotronic 333

Weather-compensated cascaded control unit for the operation of up to four Vitodens 300 (44 or 60 kW) with Vitotronic 100.



1 heating circuit without and 2 heating circuits with mixer, 2 heating circuits with mixer with DHW thermostat


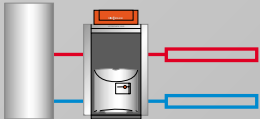

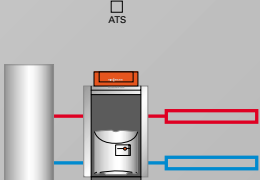

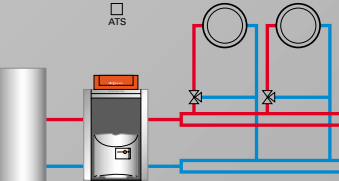

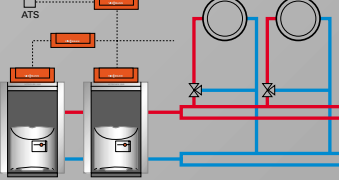
Vitotronic – one versatile range for all applications



Vitotronic for medium and large boilers

Functions	Vitotronic 100	Vitotronic 200	Vitotronic 300	Vitotronic 333
• Easy operation through various control levels for system user and heating contractor	■	■	■	■
• Plug & Work function for automatic recognition and adaptation of sensors and system accessories	■	■	■	■
• Service interval display for demand-dependent maintenance	■	■	■	■
• Quick installation, commissioning and maintenance through Rast-5 plug-in connection system and integrated diagnostic system	■	■	■	■
• Optolink laptop interface for interrogation and setting parameters via laptop	■	■	■	■
• Digital time switch for selecting daily or weekly programs		■	■	■
• Automatic summer/winter changeover		■	■	■
• Illuminated operating program switches	■	■	■	■
• Party key, economy key and holiday program		■	■	■
• Easy legibility through large plain text displays		■	■	■
• Simple selection of heating circuits through separate heating circuit keys		■	■	■
• Fuel consumption display		■	■	■
• Program selection for controlled screed drying		■	■	■
• Remote monitoring in conjunction with Vitocom 300	■	■	■	■
• Integral control unit for two mixer circuits			■	■
• Direct connection of up to 32 Vitotronic 050 heating circuit controllers, each with up to three heating circuits		■	■	■
• Covers all known strategies for multi-boiler systems				■
• Optional use of commercially available LON equipment for further inputs and outputs. Coupling via standard LON tools	■	■	■	■
• Communication within one control system via LON for simple integration into building management systems without additional gateway	■	■	■	■
• Connection to Viessmann equipment via Autobinding (automatic coupling and configuration of control equipment)				■
• Vitotronic 333 can be mounted on the boiler, on the wall or, as equipment versions, inside the Vitocontrol control panel				■
• Integrated boiler safety function (Therm Control)	■	■	■	

System overview

Votronic 100	Control unit	Applications
Boiler control unit for operation at a constant temperature in single or multi-boiler systems (in conjunction with the Vitotronic 333 cascade control unit).		
Votronic 200		
Votronic 300		
Votronic 333		

Votronic 050

Heating circuit control modules for installation on the wall, inside the control panel or on mixers.

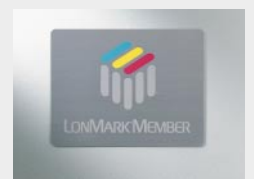
Standardised LON

With Vitotronic LON is also standard. It allows full integration into building management systems. Remote control and monitoring are possible via the Vitocom 300 communication interface.



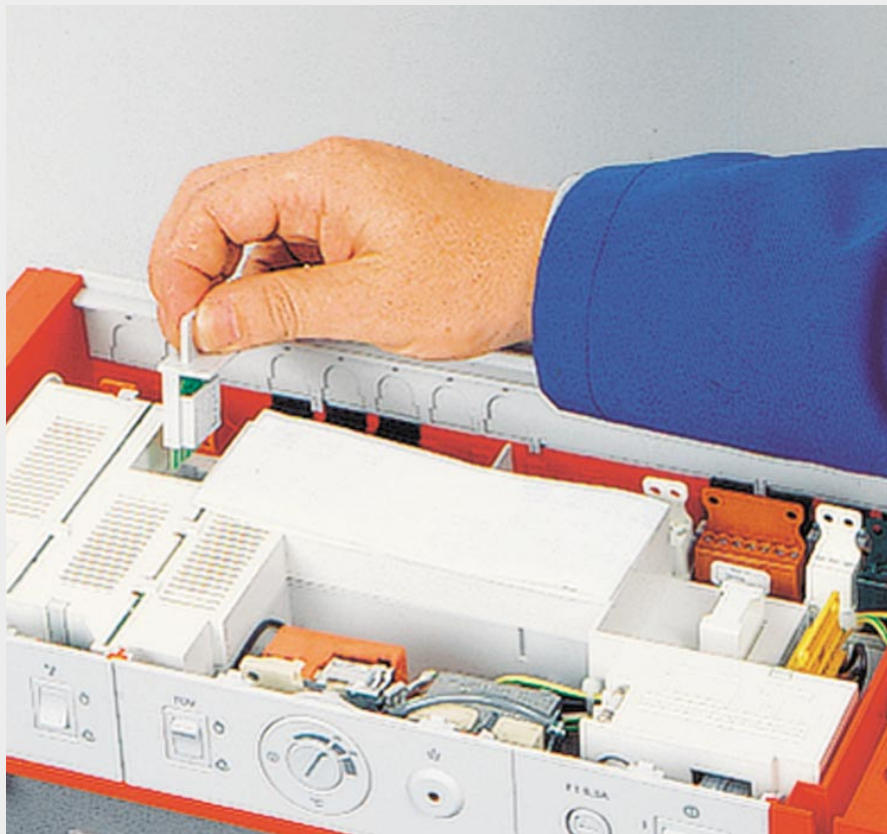
Vitocontrol control panel, fully wired and tested

Communication within the control system via LON



Viessmann is a member of the Lonmark Interoperability Association

Good design – quick assembly: Installation made easy



Inserting the encoder

Quick installation guaranteed – no matter which heating system

No matter whether wall-mounted or freestanding, whether a small or large system: quick installation of the Vitotronic is always child's play, because everything is prepared – all you have to do is push components together. All connections are designed for fail-safe assembly, avoiding time-consuming errors right from the start.

Modular design makes all assembly steps and benefits practically identical for the entire Vitotronic range.

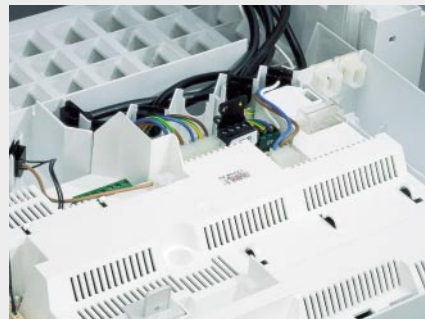
The encoder ensures that Vitotronic automatically recognises the connected boiler and enables it in the control unit.

Simple installation for medium and large boiler systems

Vitotronic is as easy to install in medium and large boilers as it is in smaller systems. It automatically clicks into place after locating it in the appropriate position; the assembly is then secured with only two screws. During installation, the large connection box is fully accessible and visible from the front.

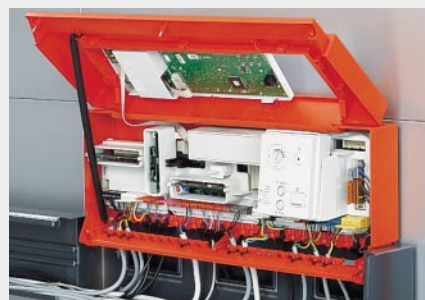
Plug & Work

Commissioning is speeded up and substantially easier with the Plug & Work function. This function, which is integrated into the processor, identifies and adapts all connected sensors and system accessories. The appropriate hydraulic design is then activated, and only the appropriate coding addresses are enabled.



Connecting components with the Rast-5 connection system

Easily accessible in the service position too because of installation on the boiler side



Any matching to system-specific conditions can be implemented without difficulties.

With Vitotronic, efficient energy management begins with the installation.

All Vitotronic control units are VDE-tested

A special feature is the uncluttered and clear layout of all assemblies, the clear separation of mains and LV components as well as the protection of "live" and electronic components through plastic shrouds. All Vitotronic control units are VDE-tested and therefore meet the most stringent electrical safety standards.

Program selection couldn't be easier: Vitotrol remote control units



Vitotrol 300

Advanced heating technology from Viessmann has taken account of the growing demand for convenience and comfort – by developing Vitotrol remote control.

Practical convenience

Vitotrol unites the most important control functions of your heating system into one clear, practical unit. The simple control philosophy continues into your living area, and mirrors the design of Vitotronic control units.

Connection options

Both Vitotrol 200 and 300 remote control units are connected via the KM-BUS. Only one remote control unit can be connected to each heating circuit. Room temperature hook-up can be activated through the integral room temperature sensor.

Vitotrol 100

Room thermostat for use with Vitotronic 100.



Vitotrol 200

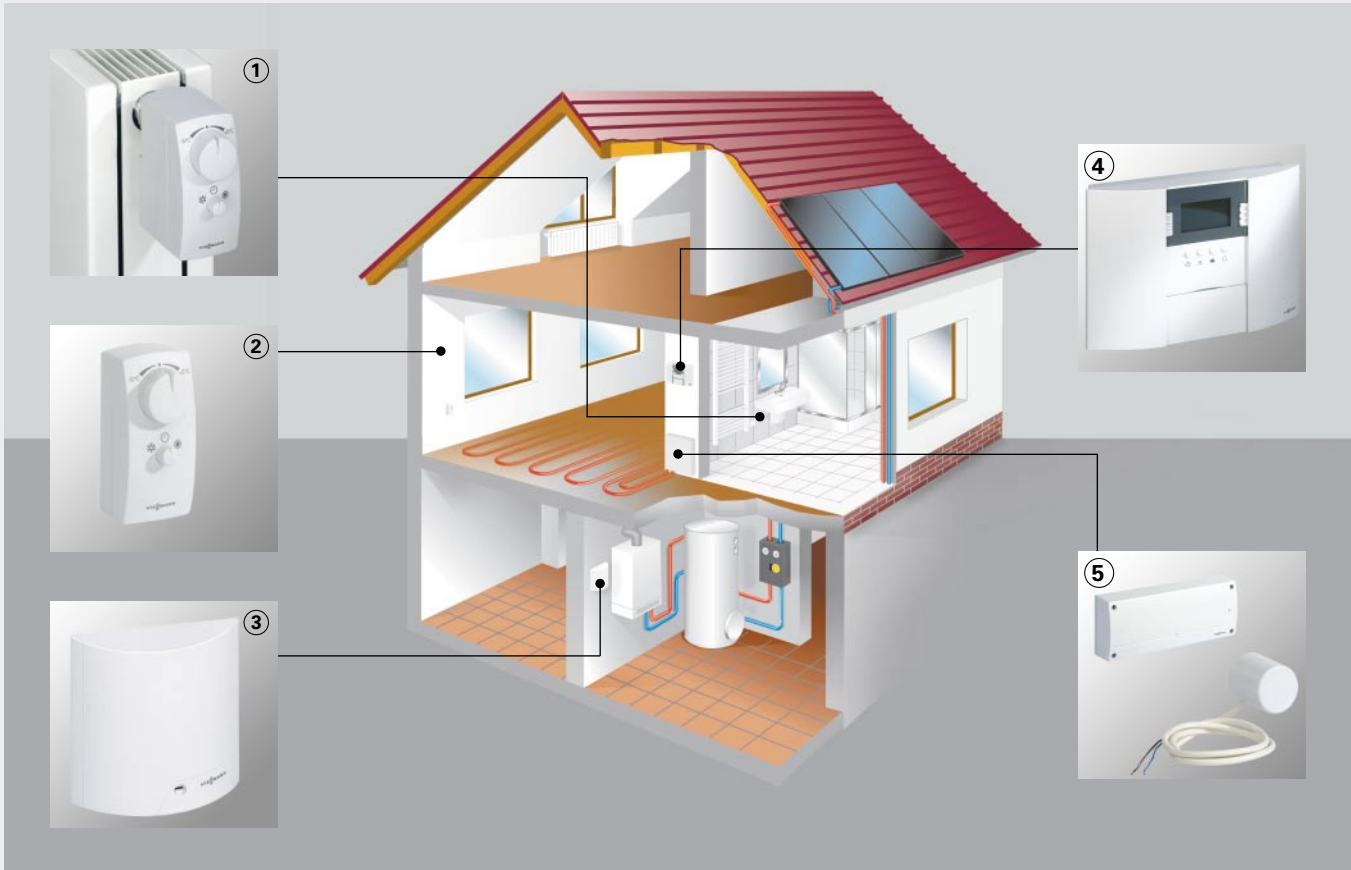
Vitotrol 200

Vitotrol 200 manages the temperature settings during standard operation (day temperature) for one heating circuit from any room in the house. Only one remote control unit can be connected to each heating circuit. It also offers the option of activating the party and economy function via Vitotrol 200.

Vitotrol 300

Vitotrol 300 is equipped with a backlit display with text support, enabling important details to be called up and modified. For a single heating circuit, it provides the settings for required temperatures during standard or reduced operation, as well as switching times. It is also equipped with a party and economy key, as well as a holiday function.

Intelligent heat for every room: Vithome 200 Home Automation



With the intelligent Vithome 200 single room thermostat, every room can be heated individually, which saves energy. And it won't matter whether the room is equipped with radiators, underfloor heating or both.

Heating comfort doesn't get any more individual than this

The heart of Vithome 200 is its central programming unit, which can be installed anywhere in the home and requires only a 230 V supply. It manages all temperatures selected by various occupants and controls the battery-operated individual room controllers on the radiators or the underfloor heating systems by wireless communication. A wireless connection to Vitatronic also regulates the boiler water temperature in accordance with the prevailing demand, saving heating energy into the bargain.

Simple and quick to install, no laying of cables

Thanks to wireless communication, installation is simple, quick and economical. Vithome 200 can be retrofitted and is therefore suitable for modernisation projects.

Radiator control unit ①

Controls each radiator individually; can also be set manually.

Underfloor heating control unit ②

Installation in living area; control of room temperature.

Boiler control ③

Connection from central operating unit to control the heating system.

Central operating unit ④

From here all system components are controlled by wireless communication.

Underfloor heating control unit ⑤

Controls the flow of heat in the underfloor heating.

Vitsoft 200 ServiceControl – first class for commissioning, maintenance and service

During the development of Vitotronic particular attention was paid to supporting maintenance and service. For example, demand-dependent maintenance assessment not only records and displays the number of hours the burner has run, but enables the definition of relevant maintenance parameters – e.g. a fixed number of burner hours, a specific interval or a maximum permissible flue gas temperature. When set maintenance parameters are reached or exceeded, an appropriate maintenance message will be issued; where required the heating contractor can also be notified automatically via Vitocom.

Fault diagnostic and setting parameters made easy with Optolink and Vitsoft 200

Vitsoft 200 is the software for connecting the heating system to a laptop. This simplifies commissioning, maintenance and service on site, and automatically generates a system report by entering the system description and system-specific details. An Optolink laptop interface provides the connection to Vitotronic.

The well-known Windows interface, a commissioning assistant and the automatic recognition of the control equipment make the system operation very familiar and easy to learn.

A graphical depiction of the system hydraulics with current temperature and details provides a quick overview of the system. To ensure economic system operation, system parameters and codes can be set and adjusted centrally with the aid of Vitsoft 200.

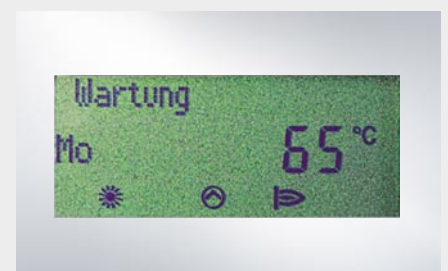
Practical: Vitsoft 200 can be updated via the internet.



Vitsoft 200 for connecting heating systems to a laptop for maintenance and service



Quick connection with the proven Optolink laptop interface



The maintenance display informs users about maintenance requirements

Vitocom TeleControl – capable of dialogue with all systems

All Vitotec heating systems are suitable for integration in communication systems. The Vitocom 100 and 300 TeleControl interfaces allow remote monitoring and control via internet, fax and mobile phone. Up to five medium boiler systems or up to 30 wall-mounted boilers can be monitored with one Vitocom 300.

Vitocom 100

Vitocom 100 is designed for attractively priced remote monitoring of detached or semi-detached homes, as well as buildings which are not permanently occupied. With the new commissioning module, Vitocom 100 can also be configured directly by PC via the internet without registering via Vitodata.

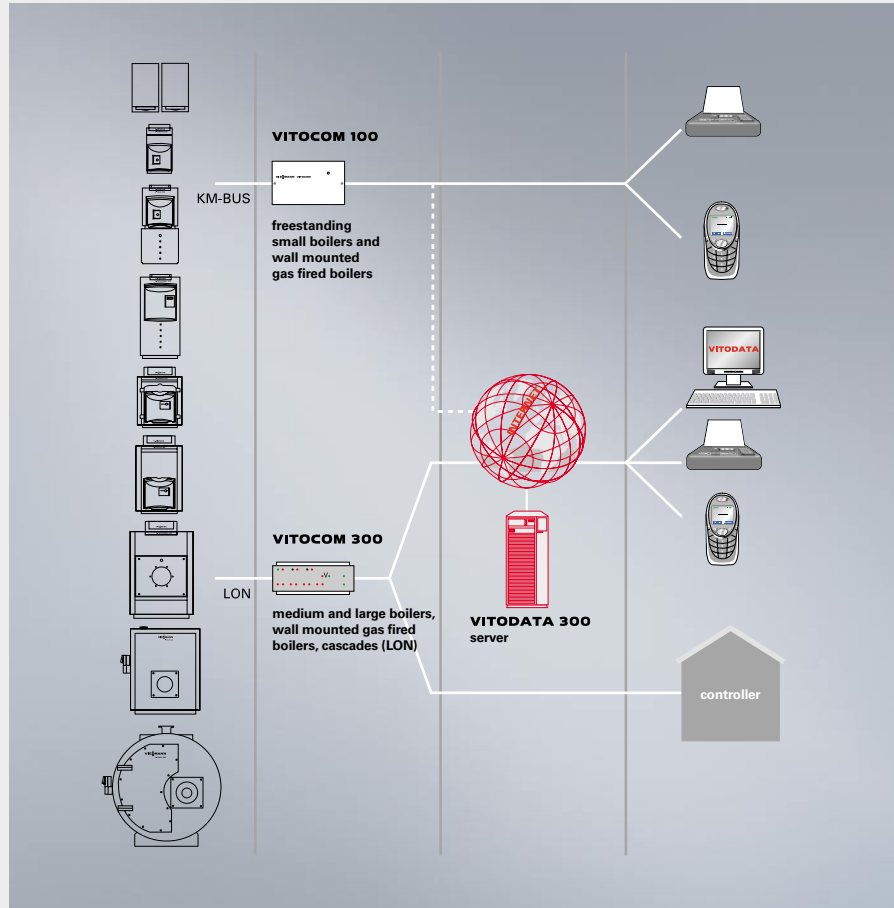
Vitocom 300

Vitocom 300 offers comprehensive remote monitoring of heating systems via the internet. System parameters of all control devices are accessible and can be modified at any time, any day. In addition, irregularities are notified to mobile phone or fax.

Analogue and digital inputs and outputs for the connection of external components are also available.

A data memory allows remote interrogation of burner hours run and temperature progress, enabling demand-dependent maintenance. Heat meters and other monitoring functions can be hooked up and make Vitocom 300 particularly attractive for heat contracting.

Its modular design enables Vitocom to be extended at any time.



Vitocom 100 for economical remote monitoring



Vitocom 300, base and auxiliary modules for DIN-rail mounting

Vitodata 300 Internet TeleControl: Remote monitoring and control via the internet

Vitodata 300 Internet TeleControl allows remote monitoring and control of heating systems 24/7, from anywhere in the world. Access is provided via the internet through the Vitacom 300 interface.

Notification to as many recipients as you choose

Vitodata 300 notifies any irregularities immediately, even without an internet connection. The recipients can be predetermined: fax machines, mobile phones, landline phones via voice mail, email or the control centres of other control unit manufacturers.

No unnecessary costs, no unnecessary work

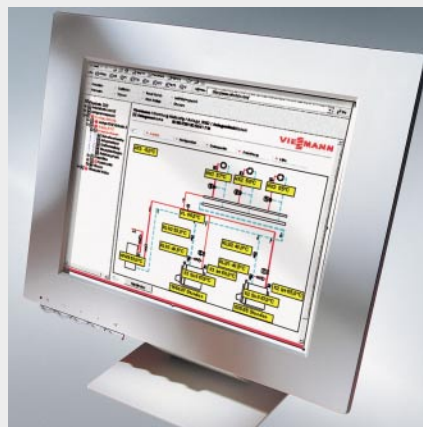
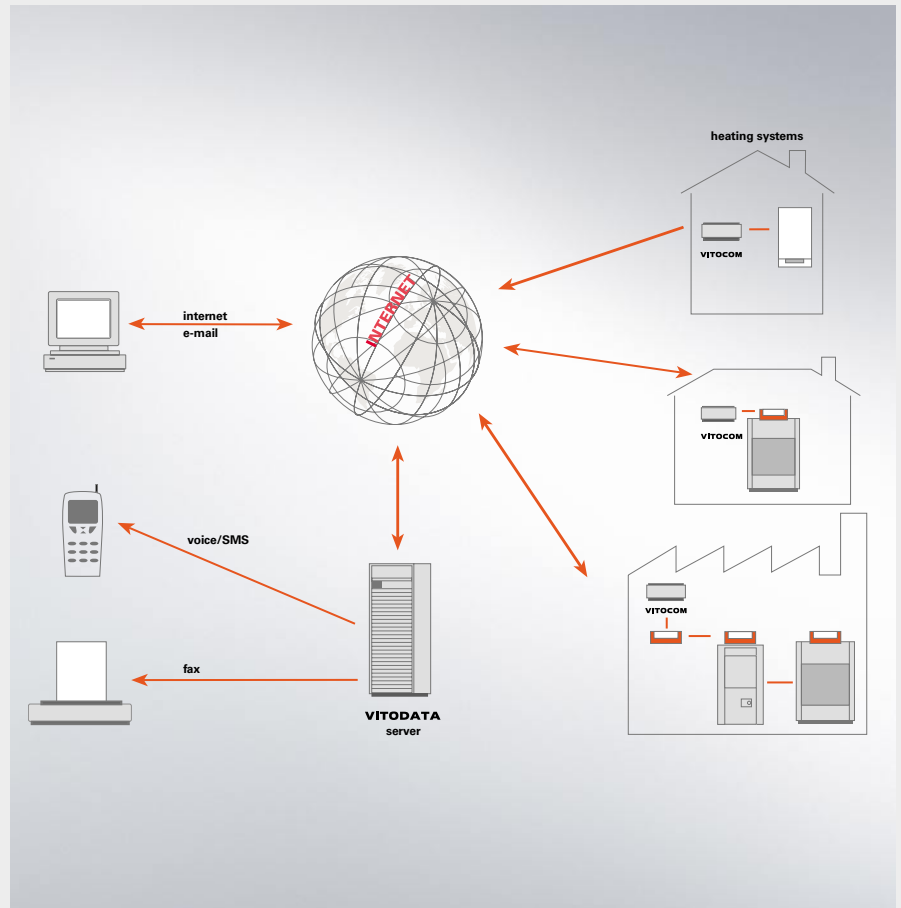
Special and expensive control software is not necessary, eliminating costs for the maintenance of a software program or updates. No special knowledge is required for connection. Any authorised person can carry out configuration via the internet.

Clear and easy to read: Documentation of the information

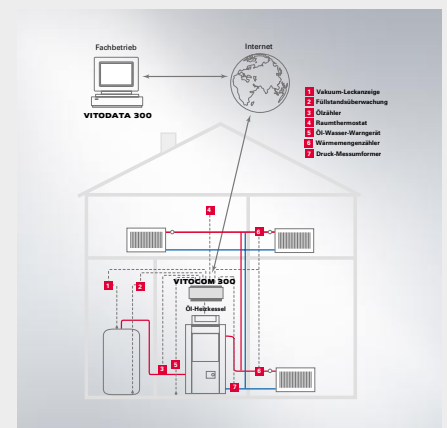
All details can be presented in a variety of ways. As an operations journal, a system scheme, a set-point/actual value comparison or data recording (trending). The prerequisite for optimising the utilisation ratio and energy consumption of the system.

Components for building monitoring

In conjunction with Vitacom 300, the range of available Viessmann products includes numerous components (e.g. smoke detectors, thermostats, BUS-compatible heat meters) for monitoring oil and gas-fired central heating systems as well as buildings themselves.



Vitodata 300 enables access to all heating system data and codes



Remote monitoring and control via the internet with Vitodata 300

Three phase complete range for all applications, needs and expectations

„more than heat“

Producing heat conveniently, economically and with minimal environmental impact and making it available as needed is something the family business of Viessmann has been committed to for three generations already.

Innovation

With numerous outstanding product developments and problem solutions Viessmann has repeatedly managed to create milestones that have made the company the pacemaker and stimulator of the entire industry.

Top quality

For the quality of the products the use of high quality and especially suitable materials in combination with a highly developed manufacturing competence is of great importance. Viessmann has always consistently utilised the specific properties of the materials used for the realisation of innovative technical solutions, perfectly combining selected materials and principles of design. In conjunction with the applied knowledge of the Viessmann employees this results in the top quality for which Viessmann is known and recognised.



Freestanding oil
and gas fired con-
densing boilers

Wall-mounted oil
and gas fired con-
densing boilers



Heating system
components from
fuel storage to ra-
diators and under-
floor heating sys-
tems



Regenerative energy
systems for the exploi-
tation of environmental
heat, solar energy
and sustainable raw
materials

Full range for every need

With the current Vitotec range Viessmann offers its customers a full multi-phase range with performance parameters of 1.5 kW to 15000 kW: freestanding and wall-mounted oil and gas fired condenser boilers as well as regenerative energy systems such as heat pumps, solar systems and boilers for sustainable raw materials. The range includes control engineering and data communication components as well as all system peripherals through to radiators and underfloor heating systems.

Internationality

With 10 plants in Germany, France, Canada, Poland and China, sales organisations in Germany and 33 other countries and 110 sales branches worldwide, Viessmann has an international outlook.

Responsibility, fairness and efficiency

Responsibility for the environment and society, fairness in dealings with business partners and employees and the striving for perfection and the greatest efficiency in all business processes are key values for Viessmann. This applies to every single employee and thus for the entire company, which with all its products and flanking services offers its customers the special benefits and the added value of a strong brand.

Viessmann – more than heat



The Viessmann Centre in Allendorf with the corporate museum "Via Temporis"



Viessmann supports top performance; in sport as well



Viessmann branches: 110 x worldwide

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