Installation and service instructions

for contractors

Vitotrol 100
Type UTA-LV

Room thermostat for Vitodens 050-W and boilers with Vitotronic 100

For applicability, see the last page

VITOTROL 100

5461 382 GB 1/2014

Please keep safe.

Safety instructions

Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained

Danger
This symbol warns against the risk of injury.

Please note
This symbol warns against the risk of material losses and environmental pollution.

Note
Details identified by the word "Note" contain additional information.

Target group

These instructions are exclusively intended for qualified contractors.
- Work on gas installations must only be carried out by a registered gas fitter.
- Work on electrical equipment must only be carried out by a qualified electrician.
- The system must be commissioned by the system installer or a qualified person authorised by the installer.

Regulations

Observe the following when working on this system:
- Statutory regulations regarding the prevention of accidents
- Statutory regulations regarding environmental protection
- The Code of Practice of relevant trade associations
- All current safety regulations as defined by DIN, EN, DVGW, TRGI, TRF, VDE and all locally applicable standards
  - (A) ÖNORM, EN, ÖVGW-TR Gas, ÖVGW-TRF and ÖVE
  - (CH) SEV, SUVA, SVGW, SVTI, SWKI, VKF and EKAS guideline 1942: LPG, part 2

If you smell gas

Danger
Escaping gas can lead to explosions which may result in serious injury.
- Do not smoke. Prevent naked flames and sparks. Do not switch lights or electrical appliances on or off.
- Close the gas shut-off valve.
- Open windows and doors.
- Evacuate any people from the danger zone.
- Notify your gas or electricity supplier and your local heating contractor from outside the building.
- Shut off the electricity supply to the building from a safe place (outside the building).

5461 382 GB

Safety instructions (cont.)

If you smell flue gas

Danger
Flue gas can lead to life threatening poisoning.
- Shut down the heating system.
- Ventilate the installation site.
- Close all doors in the living space.

Flue systems and combustion air

Ensure that flue systems are clear and cannot be sealed, for instance due to accumulation of condensate or other causes. Ensure a sufficient supply of combustion air.
Instruct system users that subsequent modifications to the building characteristics are not permissible (e.g. cable/pipework routing, cladding or partitions).

Danger
Leaking or blocked flue systems, or an insufficient supply of combustion air can cause life threatening poisoning from carbon monoxide in the flue gas.
Ensure the flue system is in proper working order. Apertures for supplying combustion air must be non-closable.

Extractors

Operating appliances that extract air to the outside (cooker hoods, extractors, air conditioning units, etc.) can create negative pressure. If the boiler is operated at the same time, this can lead to reverse flow of the flue gas.

Danger
The simultaneous operation of the boiler and appliances that extract air to the outside can result in life threatening poisoning due to reverse flow of the flue gas.
Fit an interlock circuit or take suitable steps to ensure a sufficient supply of combustion air.

Working on the system

- Where gas is used as the fuel, close the main gas shut-off valve and safeguard it against unintentional reopening.
- Isolate the system from the power supply (e.g. by removing the separate fuse or by means of a mains isolator) and check that it is no longer 'live'.
- Safeguard the system against reconnection.

Danger
Hot surfaces can cause burns.
- Before maintenance or service work, switch OFF the appliance and let it cool down.
- Never touch hot surfaces on the boiler, burner, flue system or pipework.

Please note
Electronic assemblies can be damaged by electrostatic discharge.
Before beginning work, touch earthed objects, such as heating or water pipes, to discharge static loads.

5461 382 GB

Safety instructions (cont.)

Repair work

Please note
Repairing components that fulfil a safety function can compromise the safe operation of the system.
Faulty components must be replaced with original Viessmann spare parts.

Auxiliary components, spare and wearing parts

Please note
Spare and wearing parts that have not been tested together with the system can compromise its function. Installing non-authorised components and making non-approved modifications or conversions can compromise safety and may invalidate the warranty.
For replacements, use only original spare parts supplied or approved by Viessmann.

Index

Installation instructions

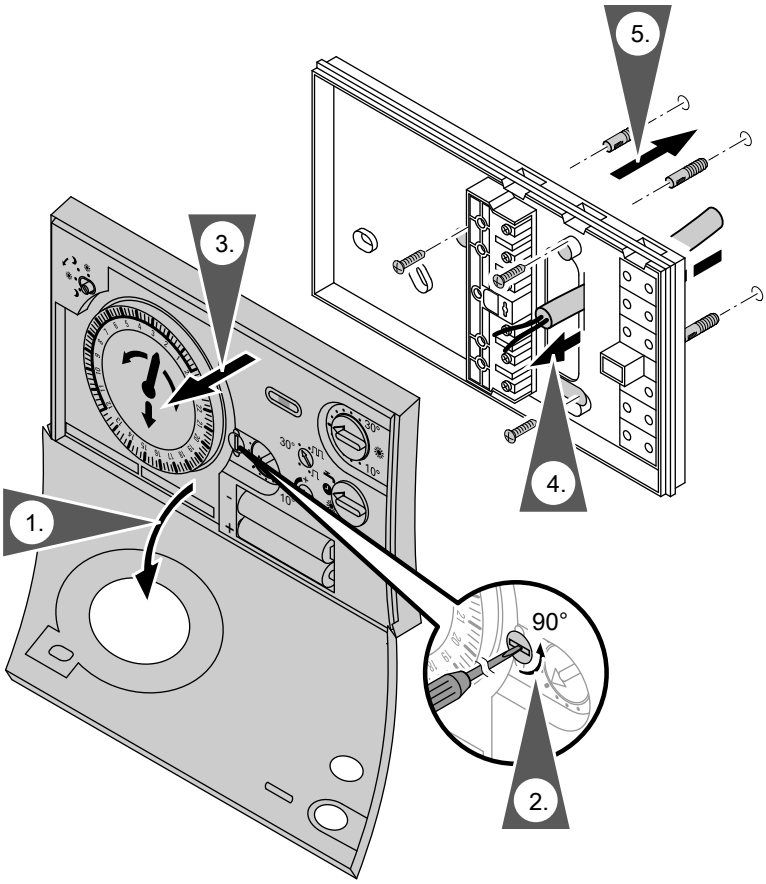
Service instructions

Installation site

- Installation in the main living room on an internal wall opposite radiators
- Approximately 1.5 m above floor level
- Not near windows or doors
- Not on shelves or in recesses
- Away from heat sources, such as
  - radiators
  - fireplace
  - television
  - direct sunlight

Never install further control devices in this main living room. If the radiators are equipped with thermostatic valves, these must always be fully opened.

Fitting the room thermostat

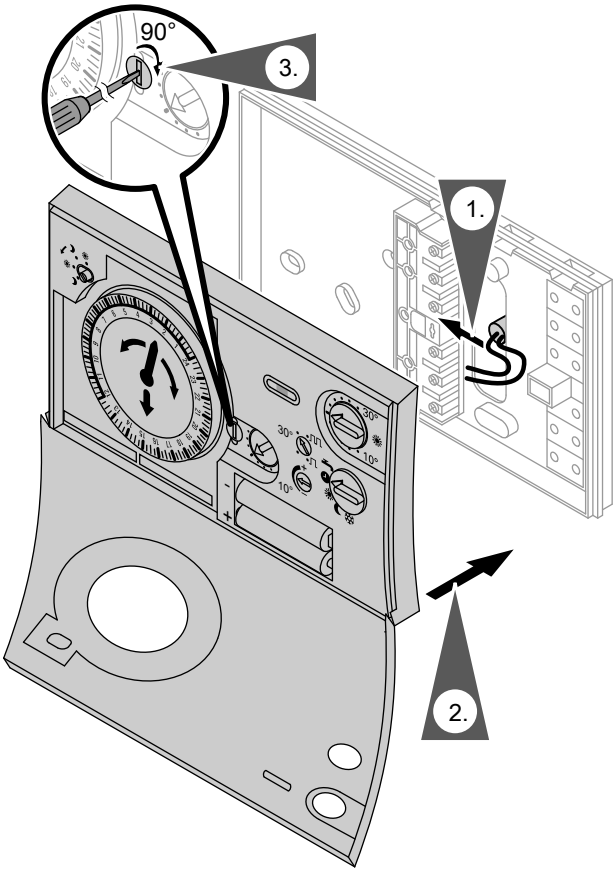


Electrical connection

Recommended connecting cable:

- 2-core cable with a cross-section of 1.5 mm²

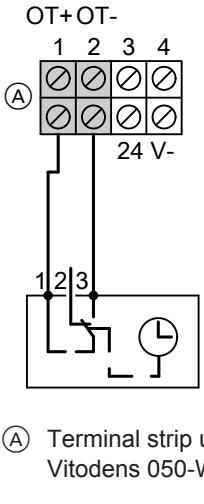
Electrical connection (cont.)



Information on step 1:
Press cables flat into the base.
Wiring subject to boiler control unit. See the following chapter.

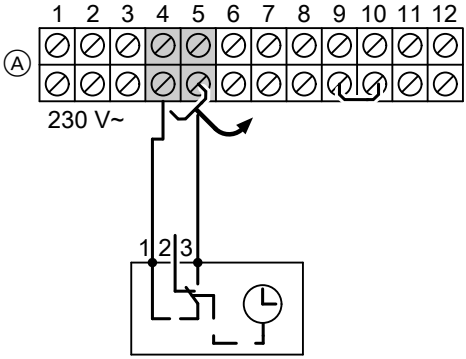
Electrical connection (cont.)

Connection to the Vitodens 050-W



Ⓐ Terminal strip underneath the Vitodens 050-W

Connection to the Vitotronic 100 with a terminal strip

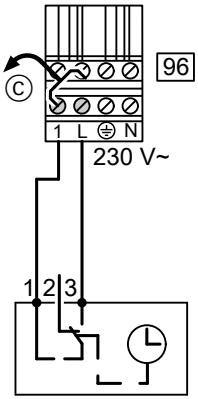


Ⓐ Terminal strip inside the Vitotronic 100, type KC3

Remove jumper across terminals 4 and 5.

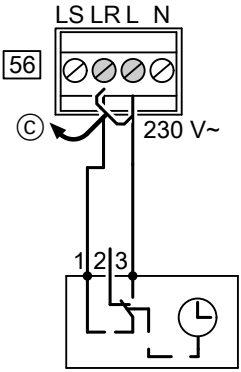
Electrical connection (cont.)

Connection to the Vitotronic 100 with plug 96



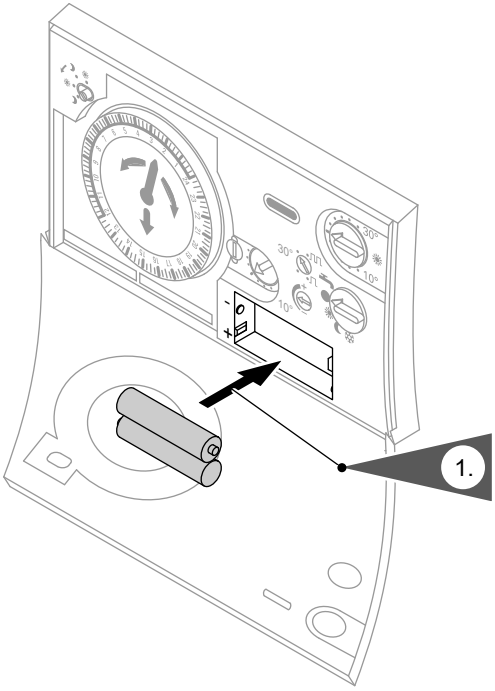
Remove jumper Ⓒ across terminals 1 and L.

Connection to the Vitotronic 100 with plug 56



Remove jumper Ⓒ across terminals LR and L.

Inserting batteries



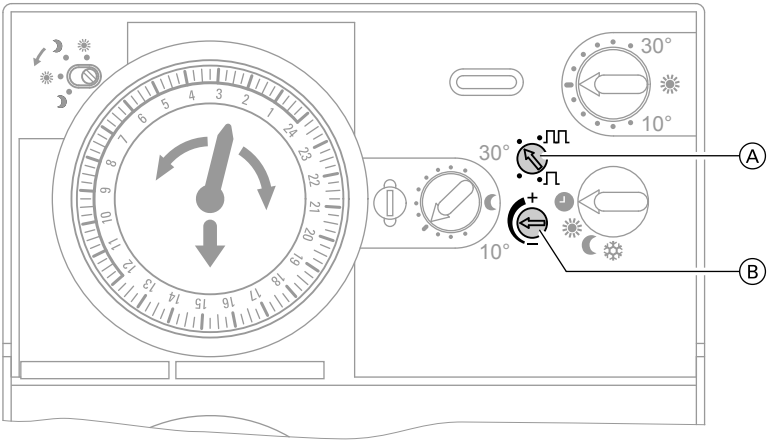
1. Insert batteries into the battery compartment (observe correct polarity).

Adjusting the room thermostat

Note

Set room thermostat code, if required; see the installation and service instructions for the Vitotronic control unit.

Adjusting the room thermostat (cont.)

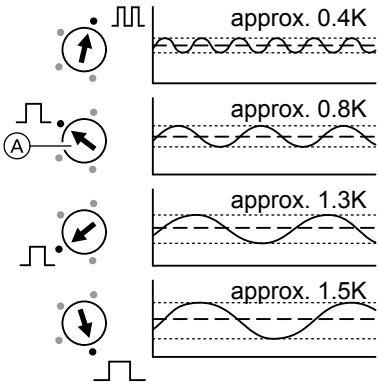


Ⓐ Controller for electronic feedback

Ⓑ Temperature matching controller

Electronic feedback (hysteresis setting)

The switching hysteresis is influenced by the electronic feedback.
The Vitotrol 100 is set up at the factory for standard mode. Only change this setting if the control unit must be adapted to the heating system.



Ⓐ Standard mode (delivered condition)

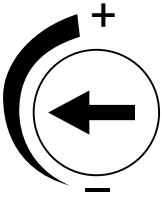
Bring the controller for the electronic feedback into the required position using a screwdriver.

5461 382 GB

Adjusting the room thermostat (cont.)

Temperature matching

To adapt to local conditions, a temperature adjustment may be required, e.g. when installing it on a cold concrete wall.



- Regulated temperature too high: To adjust the temperature, turn the controller towards "–"
- Regulated temperature too low: Turn the controller towards "+" to adjust the temperature

Repeat if required after the room temperature has stabilised.

Note

Following commissioning, the Vitotrol 100 needs around 1 h to adjust to its ambient temperature. System users should only then make adjustments to suit their personal requirements.

Specification

Rated voltage	3 V– 2 batteries LR 6/AA
Rated breaking capacity of the contact	6 A/250 V~ 1 A/250 V~ cosφ = 0.6
Switching hysteresis	0.4 to 1.5 K
Safety category	II
IP rating	IP 20
Ambient temperature	
■ during operation	0 to 35 °C
■ during storage and transport	–20 to +40 °C
Function	Type 1B to EN 60730-1

5461 382 GB

Declaration of conformity

We, Viessmann Werke GmbH&Co KG, D-35107 Allendorf, confirm as sole responsible body that the product **Vitotrol 100, type UTA complies** with the following standards:

EN 60 730–1
EN 60 730-2-9

In accordance with the following Directives, this product is designated with **CE**:

2011/65/EC
2004/108/EC
2006/95/EC

Allendorf, 1 January 2014

Viessmann Werke GmbH&Co KG

Authorised signatory Manfred Sommer

5461 382 GB

Applicability

Serial No.:
7537996

Viessmann Werke GmbH&Co KG
D-35107 Allendorf
Telephone: +49 6452 70-0
Fax: +49 6452 70-2780
www.viessmann.com

Viessmann Limited
Hortonwood 30, Telford
Shropshire, TF1 7YP, GB
Telephone: +44 1952 675000
Fax: +44 1952 675040
E-mail: info-uk@viessmann.com

5461 382 GB Subject to technical modifications.