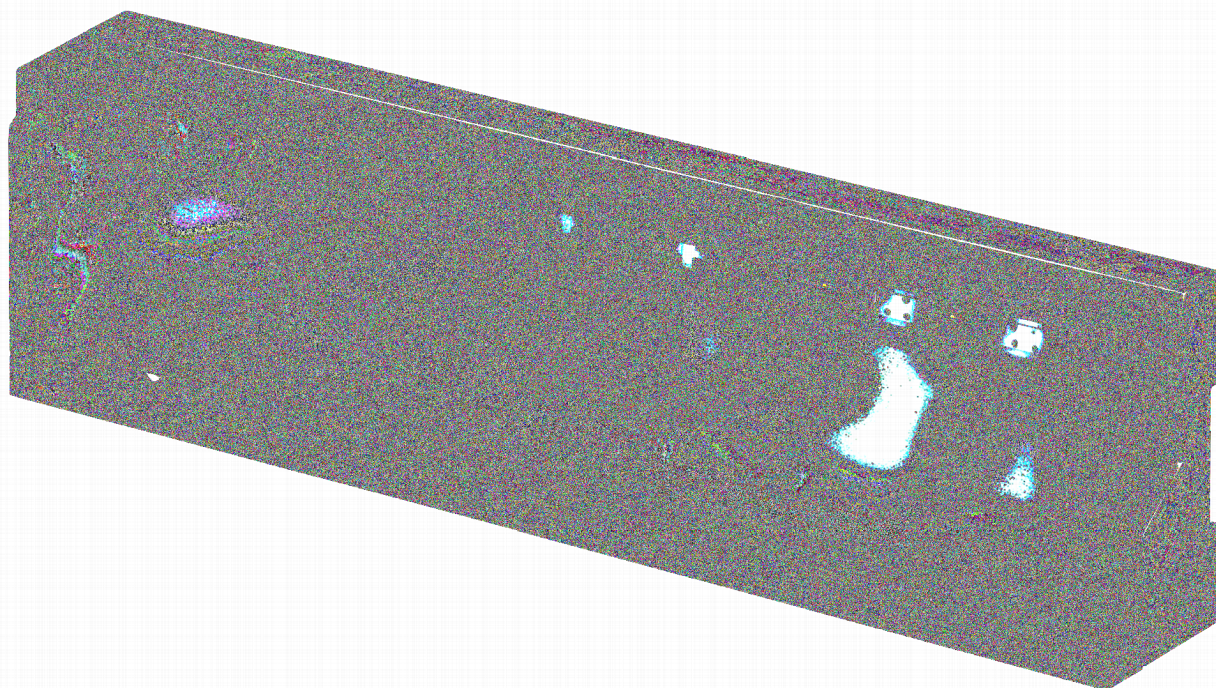


## Instructions for Use

### Basic unit 230 V / 24 V



for individual room regulation of the Fonterra radiant heating and cooling systems

**Model**  
1246

**viega**

# Table of contents

<b>1</b>	<b>About these instructions for use</b>	<b>3</b>
	1.1 Target groups	3
	1.2 About this translated version	3
<b>2</b>	<b>Product information</b>	<b>4</b>
	2.1 Standards and regulations	4
	2.2 Safety advice	4
	2.3 Intended use	4
	2.4 Product description	5
	2.4.1 Functions	5
	2.4.2 Overview and description of component	6
	2.4.3 Technical data	6
	2.4.4 Accessories	8
<b>3</b>	<b>Handling</b>	<b>10</b>
	3.1 Transport and storage	10
	3.2 Preconditions for mounting	10
	3.3 Assembly	10
	3.3.1 Mounting the basic unit	10
	3.4 Commissioning	12
	3.4.1 Making the electrical connection	12
	3.5 Care tips	13
	3.6 Troubleshooting	14
	3.7 Disposal	14

# 1 About these instructions for use

Trade mark rights exist for this document; for further information, go to [viega.com/legal](http://viega.com/legal).

## 1.1 Target groups

The information in this instruction manual is directed at the following groups of people:

- Heating and plumbing experts and trained personnel
- Qualified electricians
- Operators

Individuals without the abovementioned training or qualification are not permitted to mount, install and, if required, maintain this product. This restriction does not extend to possible operating instructions.

The installation of Viega products must take place in accordance with the general rules of engineering and the Viega instructions for use.

## 1.2 About this translated version

This instruction for use contains important information about the choice of product or system, assembly and commissioning as well as intended use and, if required, maintenance measures. The information about the products, their properties and application technology are based on the current standards in Europe (e.g. EN) and/or in Germany (e.g. DIN/DVGW).

Some passages in the text may refer to technical codes in Europe/Germany. These should serve as recommendations in the absence of corresponding national regulations. The relevant national laws, standards, regulations, directives and other technical provisions take priority over the German/European directives specified in this manual: The information herein is not binding for other countries and regions; as said above, they should be understood as a recommendation.

## 2 Product information

### 2.1 Standards and regulations

The following standards and regulations apply to Germany / Europe and are provided as a support feature.

#### Regulations from section: Disposal

Scope / Notice	Regulations
Disposal of electronic components	WEEE-Richtlinie 2012/19/EU

### 2.2 Safety advice



#### **DANGER!** **Danger due to electrical current**

An electric shock can lead to burns and serious injury and even death.

- Work on the electrics may only be carried out by trained electricians or electrical trade professionals.
- Switch off the mains voltage before carrying out work on electrical parts.
- Switch off the mains voltage before opening the casing.

### 2.3 Intended use

The 230 V/24 V basic unit is the central connection unit for all panel heating system components. The basic unit converts the information by the connected room thermostats to control signals for the actuators.

This function is guaranteed in combination with:

- Room thermostat model 1243, 1230.2 or 1244
- Actuator model 1249 or 1249.1

## 2.4 Product description

### 2.4.1 Functions

The basic unit controls all system functions and transforms the measurements transmitted by the room thermometer into control inputs for the actuator. For the operation of the basic unit, a 230 V mains connection must be provided in the manifold cabinet.

For 24 V operation, the mains connection is made via a separately available power supply unit (model 1247.5), which converts the 230 V mains voltage to 24 V, see ↪ *'Power pack'* on page 9.

All actuators and room thermostats connected via cable are directly supplied with the required operating voltage. Additional mains connections are not required.

### Features

- Simple plugging / clamping solution
- Connections for six room thermostats (zones)
  - A total of 15 connection terminals for actuators
- Connection for one external time switch
- Connection for room thermostats with time switch

### System components required

For operation of individual room control with a basic unit, a corresponding number of the following components are also required:

- Room thermostats: model 1243 (analogue), 1230.2 (analogue) or 1244 (digital)
- Actuators: Model 1249 or 1249.1
- In case of 24 V operation:
  - Power supply unit: Model 1247.5

## 2.4.2 Overview and description of component

### Scope of delivery

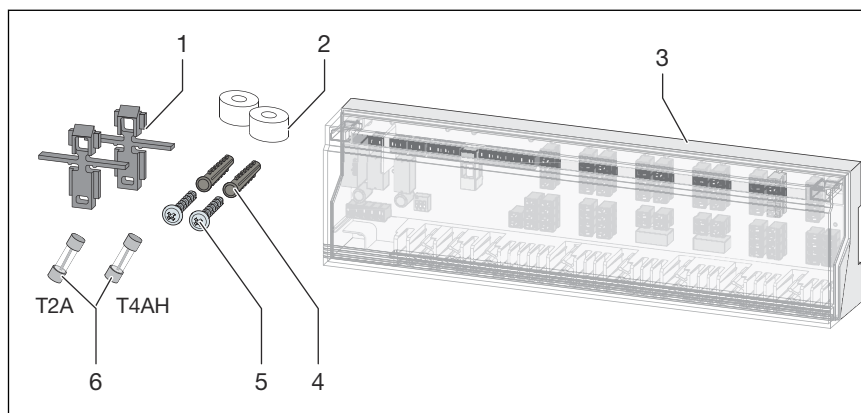


Fig. 1: Scope of delivery of the basic unit

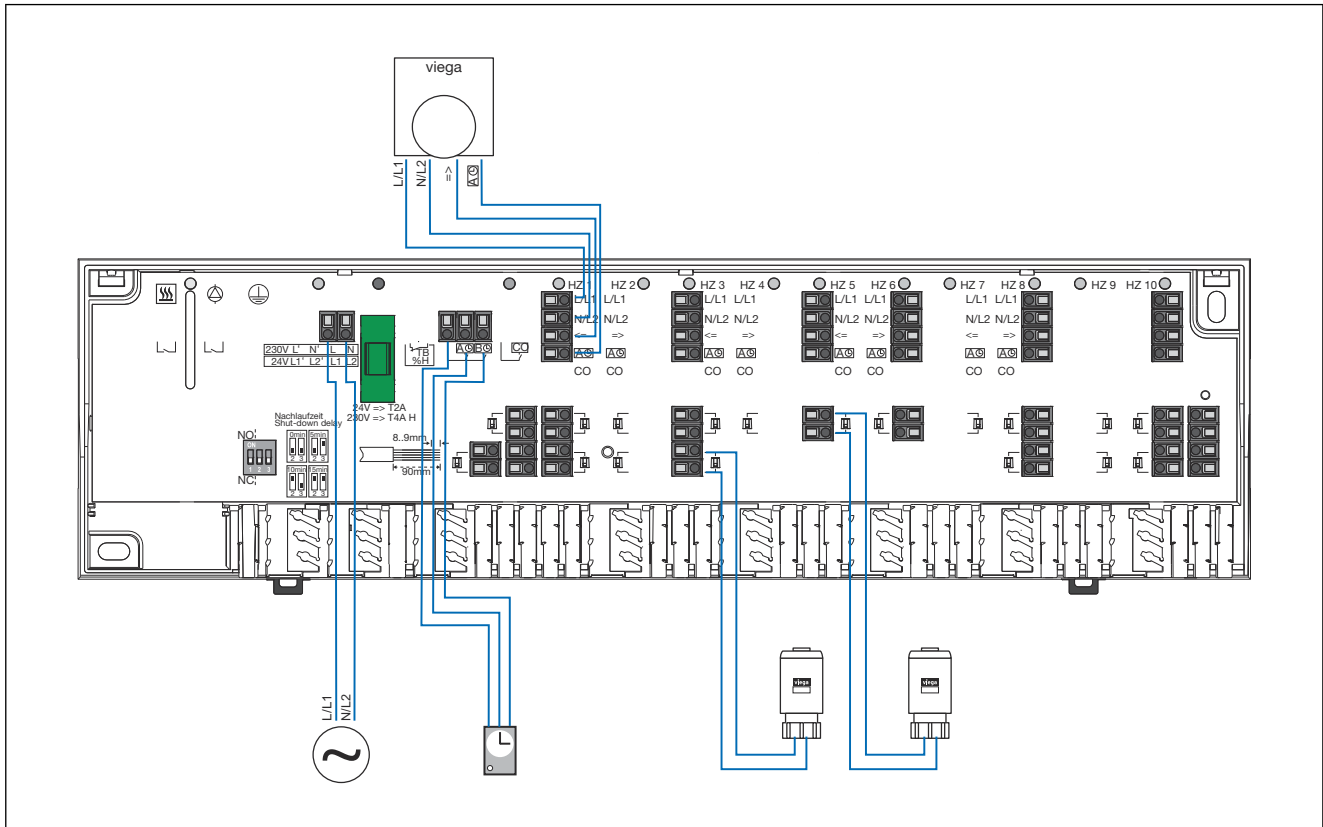
- 1 Holding clips
- 2 Spacer
- 3 Basic unit
- 4 Dowel
- 5 Screws
- 6 Fuses


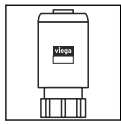


### 2.4.3 Technical data

Operating voltage	230 V AC $\pm 10\%$ , 50 Hz 24 V AC $\pm 20\%$ , 50 Hz
Power consumption	230 V: max. 50 VA 24 V: max. 30 VA
Fuse	230 V: T4AH 24 V: T2A
Number of heating zones / controllers	6
Maximum number of actuators	15
Nominal load of all drives	max. 24 W
Direction of operation	Controller-dependent: <ul style="list-style-type: none"> <li>■ closed in de-energised state (NC)</li> <li>■ open in de-energised state (NO)</li> </ul>
Ambient temperature	0–50 °C
Storage temperature range	-20–70 °C
Relative humidity – non-condensing	$\leq 80\%$
Protection class	230 V: II 24 V: III
IP Code	IP 20

Dimensions (H x L x D)	90 x 326.5 x 52 mm
CE conformity	in accordance with EN 60730

**Connection diagram**



Symbol	Meaning	Symbol	Meaning
	Analogue room thermostat		Actuator
	Voltage source		System clock

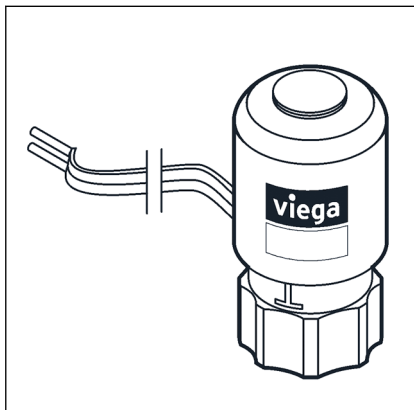
## 2.4.4 Accessories

### Actuator

Electrically operated actuator for opening and closing the control valve.

**Actuator "normally closed", 230 V – model 1249**

**Actuator "normally closed", 24 V – model 1249.1**

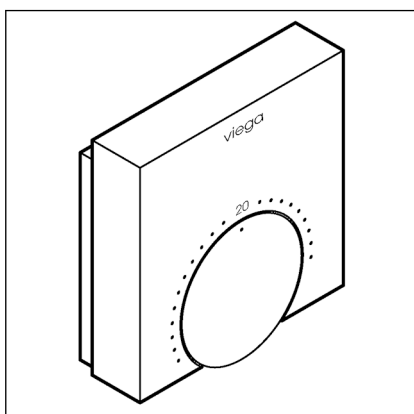


### Room thermostat

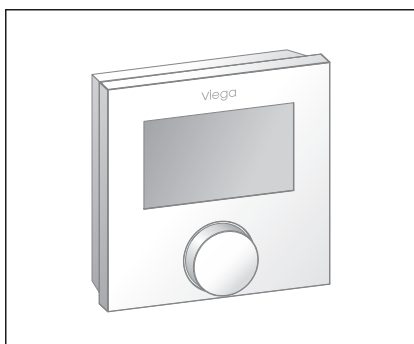
Transfers the necessary measurements to control the heating circuits to the basic unit via a cable connection.

**Room thermostat, analogue 230 V – model 1243**

**Room thermostat, analogue 24 V – model 1230.2**



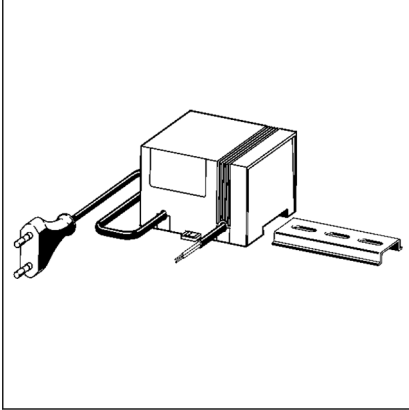
**Room thermostat, digital 230 V with electronic weekly timer – model 1244**



## Power pack

For connecting the basic units with a 24 V operating voltage to the 230 V mains supply

**Power supply unit - Model 1247.5**



## 3 Handling

### 3.1 Transport and storage

Observe the following with transport and storage:

- Avoid heavy blows and vibrations.
- Store components in a clean and dry place.
- Do not remove the components from the packaging until immediately before use.



#### **NOTICE!**

Replace defective components, do not repair.

### 3.2 Preconditions for mounting

For operation, the customer must provide a 230 V socket on site close to the heating circuit manifold. In 24 V operation, a mains adapter with 24 V operating voltage supplies power to the basic unit.

### 3.3 Assembly

#### 3.3.1 Mounting the basic unit

##### Mounting preparation

- The manifold and actuators have been mounted.
- The power supply for the basic unit has been prepared.
- The room thermostats have been mounted and connected.

Required tools and materials:

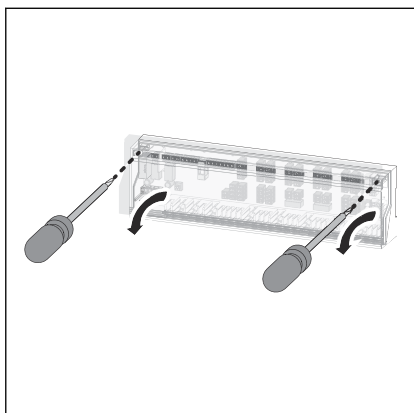
- Power drill
- Masonry drill  $\varnothing$  6 mm or metal drill  $\varnothing$  3 mm for installation on the distributor cabinet rear panel
- screwdriver
- Two plugs 6 x 30 mm and screws for wall installation (scope of delivery)
- Cables in sufficient length for connecting the room thermostats



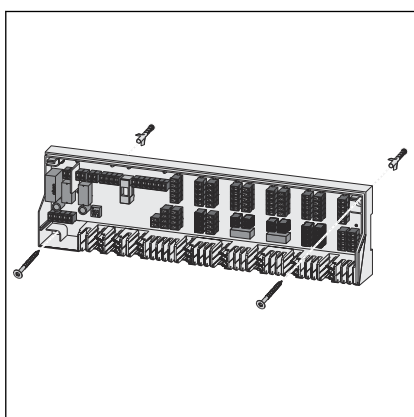
#### **NOTICE!**

The installation position must be in direct vicinity of the manifold.

### Wall mounting / mounting on a rear wall

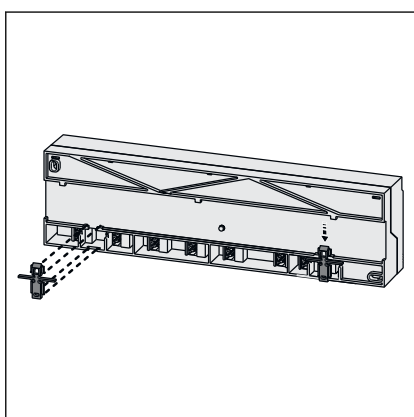


- Use a screwdriver to loosen the housing cover at the two locking points and remove.

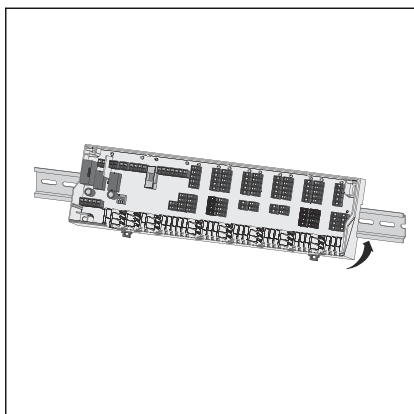


- Mark and make the bore holes.
  - Wall mounting:**  
Use the supplied screws and dowels to mount the base station to the wall.
  - Assembly in manifold cabinet:**  
Mount the basic unit using self-tapping screws (not included in the scope of delivery) directly on to the rear wall of the manifold cabinet.
- INFO! To guarantee safe fixing, for each assembly position use the white spacer from the scope of delivery.**
- Align the basic unit and tighten the screws hand-tight.

### Assembly on top-hat rail (not included in the scope of delivery)



- Fasten the two holding clips (scope of delivery) at the rear of the base station.



- Mount the top-hat rail to the wall.
- Use the holding clips to fasten the base station to the top-hat rail.

## 3.4 Commissioning

### Connecting components



Connect all external components such as actuators or room thermostats according to the connection plan. All terminals are clearly marked in the connection diagram and on the circuit board of the basic unit.

#### 3.4.1 Making the electrical connection

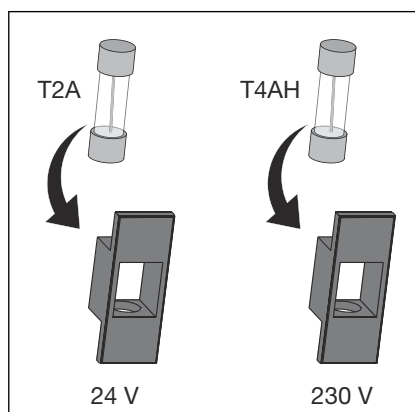


#### **DANGER!** Danger due to electrical current

An electric shock can lead to burns and serious injury and even death.

- Only allow electrical work to be carried out by qualified electricians.
- Always de-energise the connection cable before work is commenced.

#### Selecting a fuse

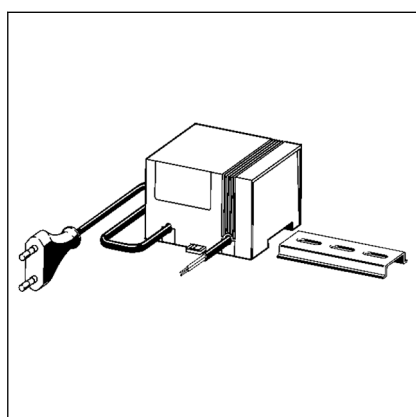


- Use the appropriate fuse in the basic unit for the operating mode.
  - T4AH for 230 V operation
  - T2A for 24 V operation



Viega recommends taking note of the type of fuse used and the operating mode (230 V or 24 V) on the specification plate of the basic unit.

## Connect the device to the mains



### Requirements:

- A 230 V mains connection is available on site.
- The connection cable is de-energised.
- The fuse suitable for the operating mode is inserted.
- For 24 V operation: Power supply unit 1247.5 available.

### ► For 230 V operation:

Connect the 230 V mains connection cable to the labelled terminals on the basic unit, see connection diagram.

**NOTICE! Use a cable with a cross-section of 1.5 mm<sup>2</sup>.**

The basic unit is connected.

### ► For 24 V operation:

Connect the cable wires of the power supply unit to the labelled terminals on the basic unit, see connection diagram.

**NOTICE! Use a cable with a cross-section of 0.75 mm<sup>2</sup>.**

- Connect the mains cable of the power pack to the 230 V power supply.

The basic unit is connected.

## 3.5 Care tips

To clean, use a soft, dry, solvent-free cloth.

## 3.6 Troubleshooting

Check the fuse, replace if necessary



### **DANGER!** **Risk of electric shock from 230 V voltage!**

Risk of electric shock when working at the open casing or at cable inlets.

- Switch off the mains voltage before carrying out work on electrical parts.

The fuse protects the basic unit from overvoltage from the mains. If the control behaves differently than expected during operation, first check the device fuse.

Requirement:

- The basic unit is disconnected from the mains.
- Use a screwdriver to loosen the housing cover at the two locking points and remove.
- Remove the existing device fuse. If the wire in the fuse is broken, replace the fuse with a new one.

230 V operation: T4AH

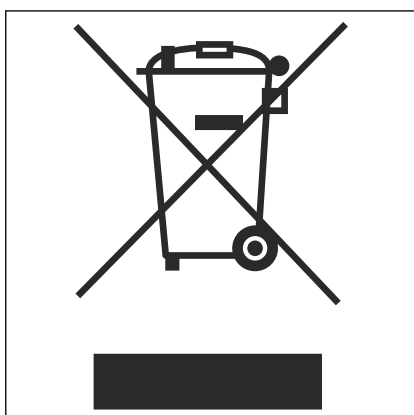
24 V operation: T2A

- Refit the housing cover of the basic unit.
- Re-establish the connection to the mains.

## 3.7 Disposal

Separate the product and packaging materials (e. g. paper, metal, plastic or non-ferrous metals) and dispose of in accordance with valid national legal requirements.

Electronic components and batteries must not be put in the domestic waste but must be disposed of appropriately in conformity with the applicable directives, see ↪ *'Regulations from section: Disposal'* on page 4.





**Viega GmbH & Co. KG**  
service-technik@viega.de  
viega.com

INT • 2025-11 • VPN170602

