

Installation, Operating and Service Instructions

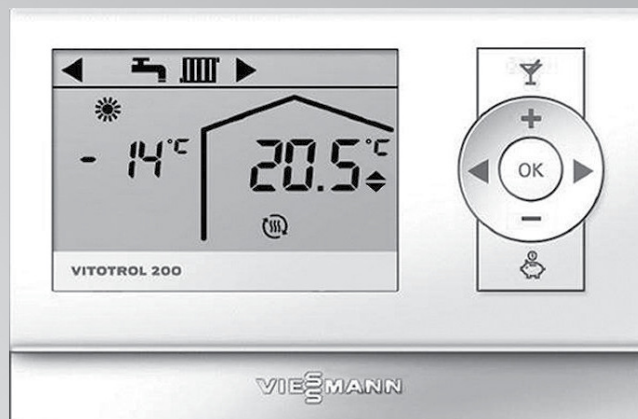
for use by heating contractor

VIESSMANN

Vitotrol 200A
Remote Control



VITOTROL 200A



Certified as a component
part for Viessmann boilers

Product may not be exactly as shown

IMPORTANT

**Read and save these instructions
for future reference.**

Safety, Installation and Warranty Requirements

Please ensure that these instructions are read and understood before commencing installation. Failure to comply with the instructions listed below and details printed in this manual can cause product/property damage, severe personal injury, and/or loss of life. Ensure all requirements below are understood and fulfilled (including detailed information found in manual subsections).

■ Product documentation

Read all applicable documentation before commencing installation. Store documentation near boiler in a readily accessible location for reference in the future by service personnel.

► *For a listing of applicable literature, please see section entitled "Important Regulatory and Installation Requirements".*



■ Warranty

Information contained in this and related product documentation must be read and followed. Failure to do so renders the warranty null and void.



■ Licensed professional heating contractor

The installation, adjustment, service and maintenance of this equipment must be performed by a licensed professional heating contractor.

► *Please see section entitled "Important Regulatory and Installation Requirements".*



■ Advice to owner

Once the installation work is complete, the heating contractor must familiarize the system operator/ultimate owner with all equipment, as well as safety precautions/requirements, shutdown procedure, and the need for professional service annually before the heating season begins.



WARNING

Installers must follow local regulations with respect to installation of carbon monoxide detectors. Follow the Viessmann maintenance schedule of the boiler contained in this manual.

Operating and Service Documentation

It is recommended that all product documentation such as parts lists, operating and service instructions be handed over to the system user for storage. Documentation is to be stored near boiler in a readily accessible location for reference by service personnel.

Safety Terminology



Take note of all symbols and notations intended to draw attention to potential hazards or important product information. These include "WARNING" and "CAUTION". See below.



WARNING

Indicates an imminently hazardous situation which, if not avoided, could result in substantial product / property damage, serious injury or loss of life.

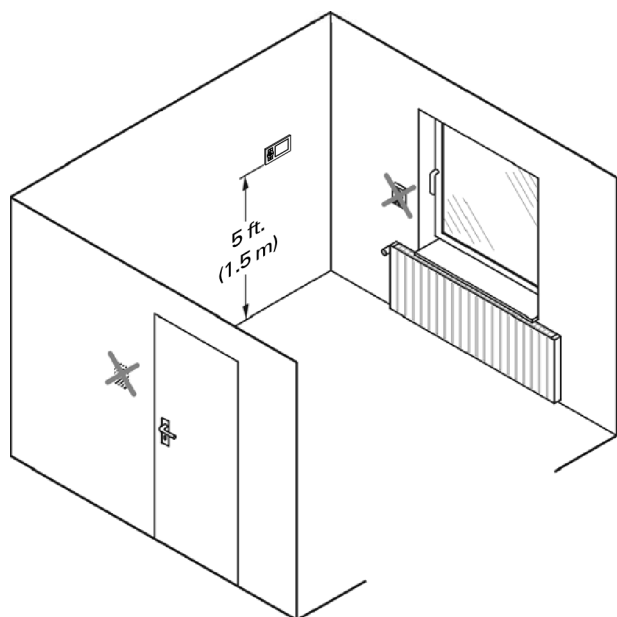


CAUTION

Indicates an imminently hazardous situation which, if not avoided, may result in minor injury or product / property damage.

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Location



The Room Temperature Sensor can only be used for room temperature sensing in the main living area, adjusting the boiler water temperature or supply temperature to the individual room. The room temperature sensor does not have any adjustment possibilities. Adjustments related to the room temperature must be performed on the programming unit of the control or on the remote control. Thermostat valves of the radiators located in the same room as the Room Temperature Sensor must be open at all times.

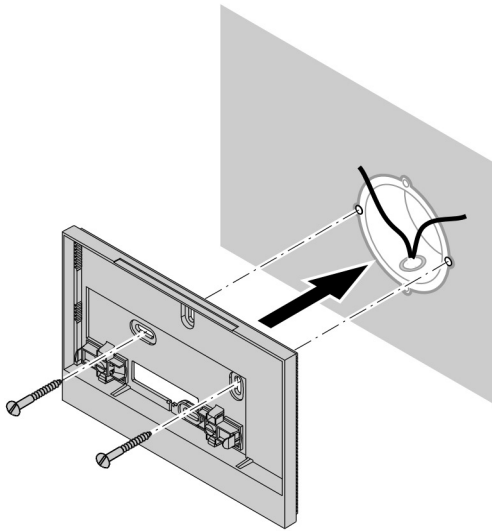
■ **Operation with room temperature dependent control**

- On an internal wall in the living space, at a height of approximately 5 ft. (1.5 m) from the floor
- Not near windows and doors
- Not above radiators
- Not near heat sources (direct sunlight, fireplace, TV set etc).

Do not install further controllers in this room. Open any thermostatic radiator valves fully.

The remote unit contains a built-in room temperature sensor, which measures the room temperature.

Installing and Connecting



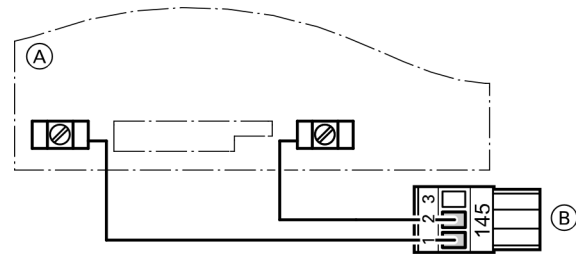
Note: Electronic modules can be damaged by electrostatic discharges.

Before beginning work, touch a grounded object, such as heating or water pipes, to discharge static loads.

Connection

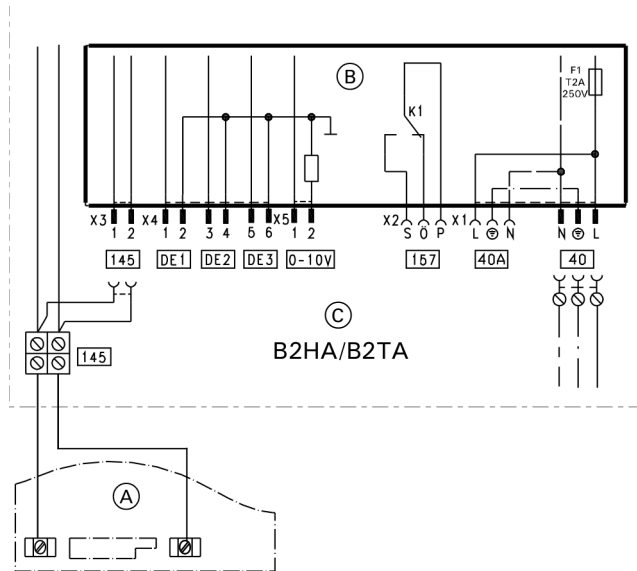
Two-wire communication cable 21 AWG, with a maximum cable length up to 150 ft. (50 m).

Note: Never route the cable to the remote control immediately next to 120V or other high voltage cables.



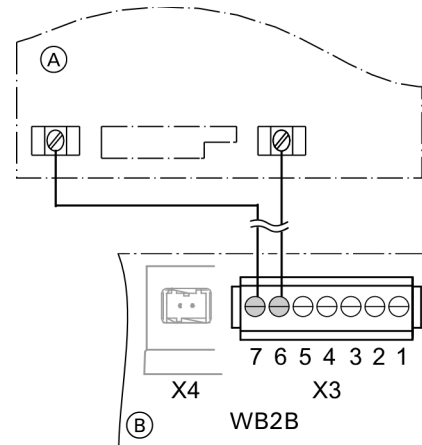
Legend

- (A) Vitotrol 200A
- (B) 2 or 3-pole plug 145 (control unit or KM BUS distributor)



Legend

- (A) Vitotrol 200A
- (B) EA1 module
- (C) External accessory connection box



Legend

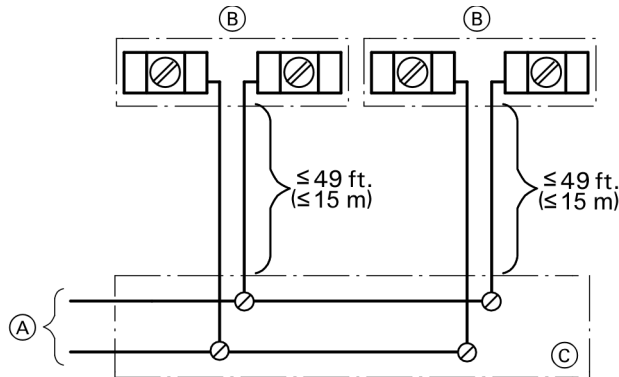
- (A) Vitotrol 200A
- (B) Boiler Control

Connecting Several Remote Control Units

Up to 2 remote control units can be connected to a boiler control unit, including a combination of one Vitotrol 200A and one Vitotrol 300A.



Refer to the Vitotrol 300A Installation Instructions

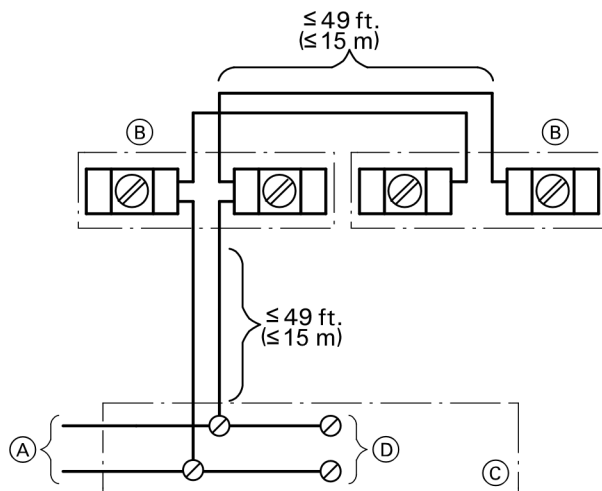


Version 1

- On-site connection via a junction box (field supplied): Connect in accordance with the diagram
- Limit the total length of all KM BUS cables to 164 ft. (50 m).

Legend

- Ⓐ To the control unit
(see connection diagram on page 5)
- Ⓑ Vitotrol 200A
- Ⓒ Junction box (field supplied)



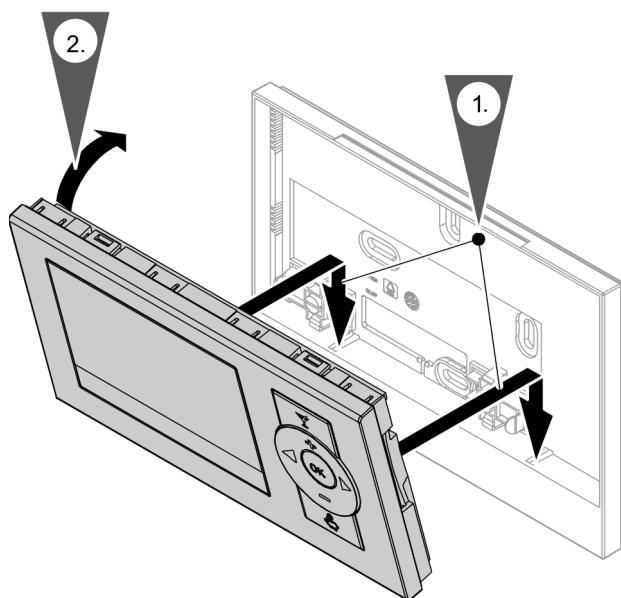
Version 2

- If several remote control units and additional KM BUS users are connected, make the connections via a junction box (field supplied) as shown in the diagram.
- Limit the total length of all KM BUS cables to 164 ft. (50 m).

Legend

- Ⓐ To the control unit
(see connection diagram on page 5)
- Ⓑ Vitotrol 200A
- Ⓒ Junction box (field supplied)
- Ⓓ Further BUS participants

Fitting the Programming Unit



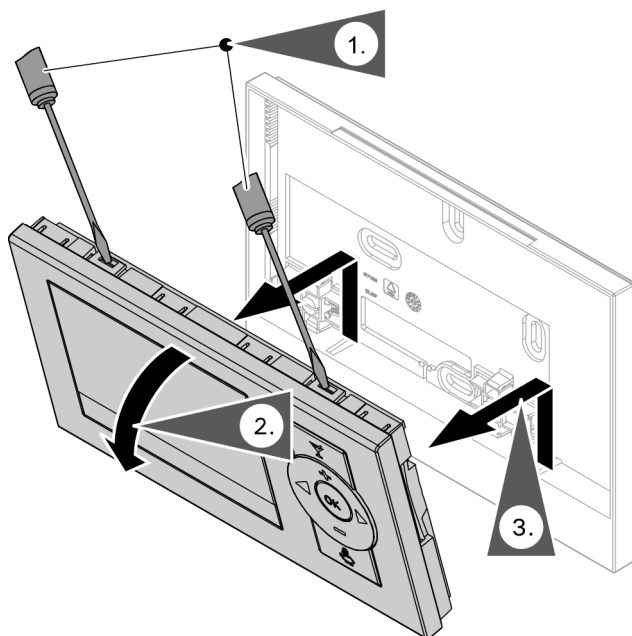
Note: The remote control is supplied with power by the control unit.

IMPORTANT

Do not insert batteries into the programming unit.

1. Hook the bottom of the Vitotrol 200A interface to the mounting plate.
2. Push the top of the Vitotrol 200A interface in to the mounting plate.

Removing the Programming Unit (if required)



1. Insert a flat head screwdriver into the slots along the top of the Vitotrol interface and twist.
2. Pull the top of the Vitotrol 200A interface out from the mounting plate.
3. Unhook the base of the Vitotrol 200A interface from the mounting plate.

Configuring the Remote Control

Up to 2 remote controls may be connected to the boiler control unit.

1. Switch ON the power supply on the control unit.
The remote control display shows "H 1".
2. With ►/◄ select heating circuit 1 ("H 1"), heating circuit ("H 2") or heating circuit ("H 3").
3. OK as confirmation. The operating state of the heating system is transferred. Rotate the display segments (this may take up to 5 min).

Changing the Configuration During the Operation

1. Press  and  simultaneously at the remote control for approx. 4 sec.
2. With ►/◄ select heating circuit 1 ("H 1"), heating circuit ("H 2") or heating circuit ("H 3").
3. OK as confirmation.
The operating state of the heating system is transferred.
Rotate the display segments (this may take up to 5 min).

Note: If the heating circuit assignment is later cancelled, reset coding address A0 for this heating circuit at the control unit to 0 (fault message bC, bd, bE).

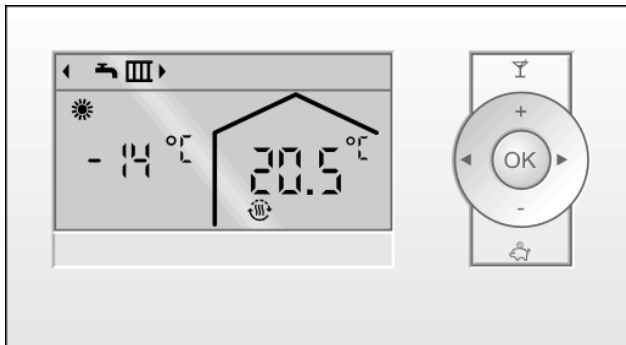
Operation Information

The Vitotrol 200A remote control unit enables the following adjustments to be made from the living space:

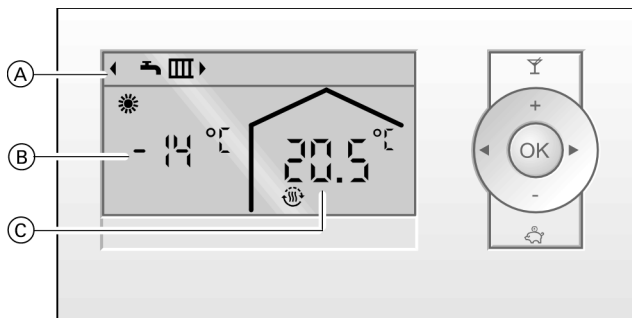
- Standard room temperature
- Heating program

All other settings are transmitted from the Vitotrol 200A to the Vitotronic control unit and vice-versa. Always the latest adjustments apply to your heating circuit.

Controls



- + Increases the standard room temperature.
- Reduces the standard room temperature.
- ▶/◀ You set the heating program.
- OK You confirm your selections or setting.
- 🍷 You activate party mode.
- 💰 You activate economy mode.



Legend

- (A) Header (heating program display)
- (B) Current outside temperature
- (C) Current room temperature

Symbols on the display

These symbols are not permanently displayed, but appear subject to the system version and the operating state.

Heating program (display in the header)

- ⏻ Standby mode with frost protection
- 🔥 DHW heating only
- 🔥🏠 Central heating and DHW heating
- 🍷 Party mode enabled
- 💰 Economy mode enabled

Displays

- ❄ Monitoring frost protection
- ☀ Central heating with standard room temperature
- 🌙 Central heating with reduced room temperature
- 🔊 Heating circuit pump runs
- 🏠 Holiday program enabled
- ☀ In conjunction with a solar thermal system:
Solar circuit pump runs
- +/- When selecting the set room temperature

Messages

- ⚠ Fault message
- 🔒 Operation blocked, except activating party mode

Required Settings

If you want central heating, check the following points:

- Have you set the required room temperature (set room temperature)?
- Have you set the correct heating program?

Setting the Room Temperature for Standard Heating Mode

Factory setting: 68° F (20° C)

Press the following keys:

1. +/- for the required set room temperature.
2. **OK** to confirm.

The display shows the current room temperature (actual room temperature).

Setting the Heating Program

Factory setting:

"" for central heating and DHW heating (winter mode).

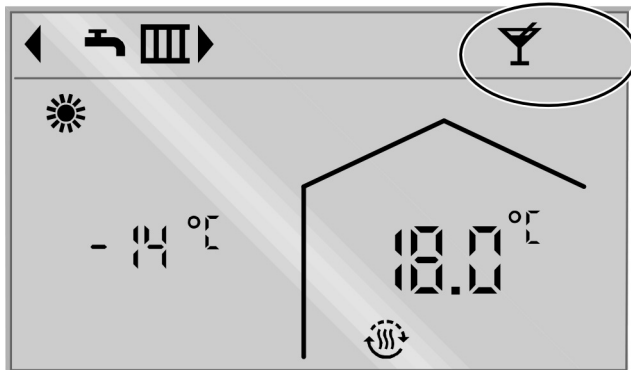
Heating programs:

-  Standby mode with frost protection
-  Only DHW heating (summer mode)
-  Central heating and DHW heating

Press the following keys:

1.   the symbol for the current heating program flashes.
2.   until the symbol for the required heating program flashes.
3. **OK** to confirm.

Comfort and Energy Saving Functions



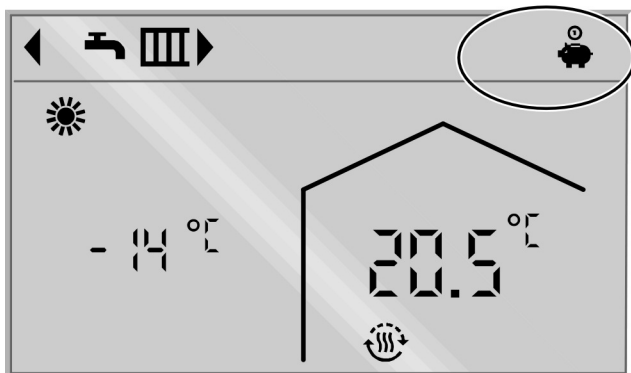
Selecting comfort mode

With this function, you can change the room temperature for several hours, e.g. if guests unexpectedly stay longer in the evening. With this function, DHW is boosted to the set temperature selected at the Vitotronic control unit.

1. If you want to select a different room temperature during party mode:
Set the required room temperature (see chapter "Setting the room temperature").
Note: This value is retained, even when the party mode terminates.
2. Press .

Ending the comfort function

- Press .
- or
- Automatically after 8 hours
- or
- Automatically when the system switches to standard heating mode in accordance with the time program selected on the Vitotronic control unit.



Energy saving function "Economy mode" select

To save energy, you can reduce the room temperature during standard heating mode (☀ must be visible in display). e.g. if you leave the house for a few hours.

Press .

End economy mode

- Press .
- or
- Automatically when the system switches to reduced heating mode in accordance with the time program selected on the Vitotronic control unit.

Rooms are too Cold

Remote control set incorrectly.	Check and correct settings if required:  must be selected (see page 10).  Set room temperature (see page 10).
No fuel.	With oil/LPG: Check the fuel reserves and re-order if required. With natural gas: Open the gas shut-off valve. If necessary, check with your gas supply utility.
"△" flashes in the display.	Scan and acknowledge the type of fault at the Vitotronic control unit. If necessary, notify your heating contractor.  Refer to the control unit operating instructions

Rooms are too Hot

Remote control set incorrectly.	Check and correct the set room temperature, if required (see page 10).
"△" flashes in the display.	Scan and acknowledge the type of fault at the Vitotronic control unit. If necessary, notify your heating contractor.  Refer to the control unit operating instructions

There is no Hot Water

Remote control set incorrectly.	Check that DHW heating has been enabled.  or  must be selected (see page 10).
No fuel.	With oil/LPG: Check the fuel reserves and re-order if required. With natural gas: Open the gas shut-off valve. If necessary, check with your gas supply utility.
"△" flashes in the display.	Scan and acknowledge the type of fault at the Vitotronic control unit. If necessary, notify your heating contractor.  Refer to the control unit operating instructions

"△" Flashes in the Display

Heating system fault.	You can scan the type of fault at the Vitotronic control unit.  Refer to the control unit operating instructions
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Rotating Segments in the Display

Communication interruption with the Vitotronic control unit.	Read fault message on Vitotronic control unit and proceed as described.
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Terminology

Setback mode (reduced heating mode)

See "Reduced heating mode".

Heating program

The heating program determines whether you heat your rooms and DHW, or only heat DHW, or whether you shut down your heating system with frost protection monitoring. You can select the following heating programs:



The rooms are heated and DHW is provided (winter mode).



DHW is provided but there is no central heating (summer mode).



Frost protection is enabled; no central heating, no DHW heating.

Operating status

In the heating program the operating status "standard heating mode" switches to the operating status "reduced heating mode" and vice versa. The times for the operating status changeover are defined when the time program is set at the Vitotronic control unit.

Heating circuit

A heating circuit is a sealed circuit between the boiler and radiators, in which the heating water circulates. A heating system may comprise several heating circuits. For example, one heating circuit for the rooms occupied by you and one heating circuit for the rooms of a separate apartment.

Heating circuit pump

Circulation pump for the circulation of the heating water in the heating circuit.

Actual temperature

Current temperature at the time of the scan; e.g. actual room temperature.

Mixer

A mixer mixes the water heated in the boiler with the cooled water returning from the heating circuit. The water, heated to the right temperature in line with demand, is delivered to the heating circuit by the heating circuit pump. The Vitotronic control unit adjusts the heating circuit flow temperature via the mixer to the various conditions, e.g. different outside temperature.

Night setback

See "Reduced heating mode".

Standard heating mode

When you are in the house during the day, you can heat the rooms in standard heating mode. Set the periods with the time program for central heating at the Vitotronic control unit. During these times, the rooms are heated to the standard room temperature.

Standard room temperature

Set the standard room temperature when you are at home during the day (see page 11).

Reduced heating mode

When you are out or during the night, you can heat the rooms in reduced heating mode (setback mode). Set the periods with the time program for central heating at the Vitotronic control unit. During these times, the rooms are heated to a reduced room temperature.

Reduced room temperature

When you are out or during the night, select the reduced room temperature on the Vitotronic control unit. See also "Reduced heating mode".

Solar circuit pump

In conjunction with solar thermal systems. The solar circuit pump delivers the cooled heat transfer medium from the DHW cylinder indirect coil to the collectors.

Set temperature

Default temperature that should be reached; e.g. set room temperature (see page 11).

Summer mode

Heating program "Only DHW". At warmer times of the year, i.e. when the rooms do not have to be heated, you can disable heating mode. The boiler remains enabled for DHW heating.

Cylinder primary pump

Circulation pump for heating the DHW in the DHW cylinder.

Parts List

When ordering spare parts see price list.

Parts

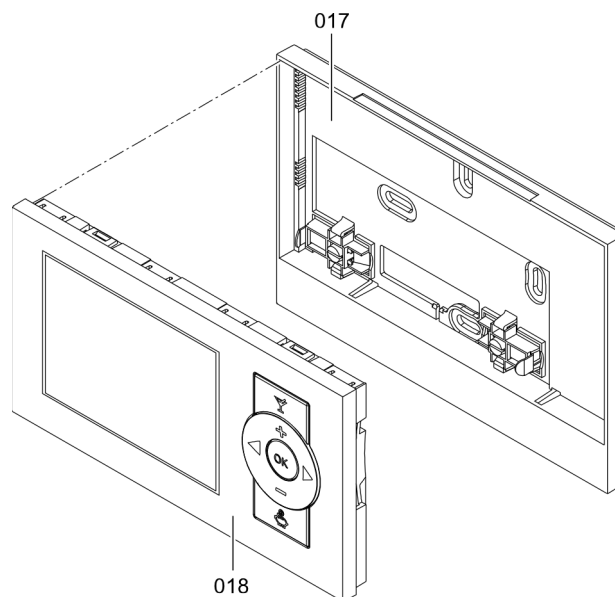
017 Wall mounting base

018 Programming unit

Parts (not shown)

080 Installation and service instructions

081 Operating instructions



Specifications

Power supply via KM BUS

Power consumption 0.2 W

Protection class III

IP rating IP 30 to EN 60529;
ensure through appropriate design and installation

Permissible ambient temperature

■ during operation 32° F to 104° F (0 to +40° C)

■ during storage and transport 4° F to 150° F (–20 to +65° C)

Set room temperature range 37° F to 99° F (3 to 37° C)

Quick Reference

°C	°F
-40	-40
-35	-31
-25	-13
-20	-4
-18	0
-16	+3
-14	+7
-12	+10
-10	+14
-9	+16
-8	+18
-7	+19
-6	+21
-5	+23
-4	+25
-3	+27
-2	+28
-1	+30
0	+32
+1	+34
+2	+36
+3	+37
+4	+39
+5	+41
+6	+43
+7	+45
+8	+46
+9	+48
+10	+50
+12	+54
+14	+57
+16	+61
+18	+64
+20	+68
+25	+77
+30	+86
+35	+95
+40	+104
+50	+122
+60	+140
+70	+158
+80	+176
+90	+194
+100	+212
+110	+230

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