

Control unit accessories (cont.)

Mixer extension kit for separate mixer motor

Part no. ZK02941

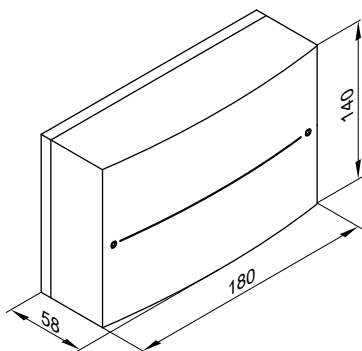
KM-BUS subscribers

For connecting a separate mixer motor

Components:

- Mixer PCB for connecting a separate mixer motor
- Flow temperature sensor (contact temperature sensor)
- Plug for connecting the heating circuit pump and the mixer motor
- Power cable (3.0 m long) with plug
- Bus connecting cable (3.0 m long) with plug

Mixer PCB



Specification mixer PCB

Rated voltage	230 V~
Rated frequency	50 Hz
Rated current	2 A
Power consumption	1.5 W
IP rating	IP 20D to EN 60529, ensure through design/installation
Protection class	I

Permissible ambient temperature

- Operation 0 to +40 °C
- Storage and transport –20 to +65 °C

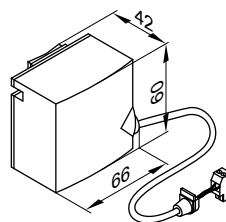
Rated relay output breaking capacity

- Heating circuit pump [20] 2(1) A, 230 V~
- Mixer motor 0.1 A, 230 V~

Required runtime of the mixer motor for 90° <

Approx. 120 s

Flow temperature sensor (contact temperature sensor)



Secured with a tie.

Specification, flow temperature sensor

Cable length	5.8 m, fully wired
IP rating	IP 32D to EN 60529; ensure through design/installation
Sensor type	Viessmann NTC 10 kΩ at 25 °C
Permissible ambient temperature	
– Operation	0 to +120 °C
– Storage and transport	–20 to +70 °C

High limit safety cut-out

Part no. 7197797

Note

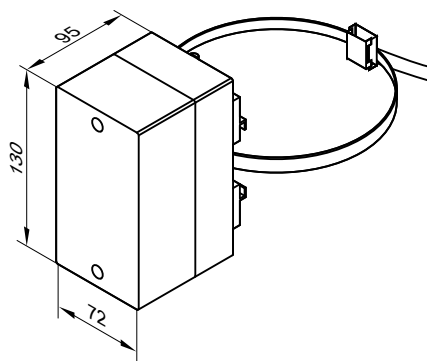
Only use with heat pumps that reach a flow temperature of up to 65 °C.

If an external heat generator is connected in the secondary circuit, the high limit safety cut-out protects the heat pump refrigerant circuit from unacceptably high temperatures.

Examples of heat generators:

- Solar thermal systems
- Solid fuel boilers
- Non-modulating boilers

The high limit safety cut-out is connected to the control unit of the external heat generator. If the heat generator exceeds the temperature, it is switched off via the high limit safety cut-out.



Specification, high limit safety cut-out

Connection	4.2 m, fully wired
Switching point	65 °C (cannot be changed)
Switching tolerance	+0/–6.5 K
IP rating	IP 41 to EN 60529; ensure through design/installation.
Ambient temperature	Max. 50 °C
Sensor temperature	Max. 90 °C
Sensor diameter	6.5 mm

Control unit accessories

11.1 Overview

Accessories	Part no.	Vitocal 200-G	300-G	350-G	222-G	333-G
Photovoltaics: See page 209 onwards.						
1-phase electricity meter	7506156	BWC-M			BWT-M	
3-phase electricity meter	7506157	201.B BWC 201.B	X	X	221.B BWT 221.B	X
Remote control units: See page 211 onwards.						
Vitotrol 200-A	Z008341	X	X	X	X	X
Wireless remote control units: See page 211 onwards.						
Vitotrol 200-RF	Z011219	X	X	X	X	X
Wireless base station	Z011413	X	X	X	X	X
Wireless repeater	7456538	X	X	X	X	X
Sensors: See page 213 onwards.						
Contact temperature sensor (NTC 10 kΩ)	7426463	X	X	X		
Immersion temperature sensor (NTC 10 kΩ)	7438702	X	X	X	X	X
Collector temperature sensor (NTC 20 kΩ)	7831913				X	X
Miscellaneous: See page 214 onwards.						
Contact relay	7814681	X	X	X	X	X
Phase monitor	7463720	X				
KM-BUS distributor	7415028	X	X	X	X	X
Swimming pool temperature controller: See page 215 onwards.						
Temperature controller for regulating swimming pool temperature	7009432	X	X	X	X	X
Extension for heating circuit control unit for heating circuit with mixer M2/HC2 (direct switching via the Vitotronic): See page 215 onwards.						
Mixer extension kit	7441998	X	X	X	X	X
Extension for heating circuit control unit for heating circuit with mixer M3/HC3 (control via the Vitotronic KM-BUS): See page 216 onwards.						
Mixer extension kit (mixer mounting)	ZK02940	X	X	X	X	X
Mixer extension kit (wall mounting)	ZK02941	X	X	X	X	X
High limit safety cut-out	7197797	X	X	X		
Immersion thermostat	7151728	X	X	X	X	X
Contact thermostat	7151729	X	X	X	X	X
Solar DHW heating and central heating backup: See page 218 onwards.						
Solar control module type SM1	Z014470	X	X	X		
Function extensions: See page 219 onwards.						
AM1 extension	7452092	X	X	X	X	X
EA1 extension	7452091	X	X	X	X	X
Communication technology: See page 220 onwards.						
Vitoconnect 100, type OPTO2	ZK04789	X	X	X	X	X
Vitocom 100, type LAN1 with communication module	Z011224	X	X	X	X	X
Vitocom 300, type LAN3 with LON communication module	Z011399	X	X	X	X	X
LON communication module	7172173	X	X	X	X	X
LON communication module for cascade control	7172174	X		X		
LON cable for control unit data exchange	7134495	X	X	X	X	X
LON coupling, RJ45	7143496	X	X	X	X	X
LON plug-in connector, RJ45	7199251	X	X	X	X	X
LON socket, RJ45	7171784	X	X	X	X	X
Terminator	7143497	X	X	X	X	X

Note

- The following description of control unit accessories lists all functions and connections of each control unit accessory. The available functions depend on the respective heat generator: See page 205.
- For more information on communication technology: See the "Data communication" technical guide.

11.2 Photovoltaics

Energy meter 1-phase

Part no. 7506156

With standard Modbus interface.

The Vitotronic control unit receives information via the Modbus detailing whether and how much (residual) energy is available to the heat pump from the photovoltaic system.