





Installation and settings
Installer-code-setting



CODE

Setting of the code "1234" by turn/press the central button. The correct input must be confirmed by setting "INSTALLER OK".



Installation and settings
Installer-code-setting



After setting of expert code and confirming with "INSTALLER OK" the display will return to the level where the code has been activated. There is no return to the expert level.

Now all parameters, described in the expert documentation are available.



Installation and settings

Menu- und parameter selection



To jump into menu press 3 sec.

button right):

SWITCHING TIME (1. Menu at start)

HYDRAULICS (HF)

SYSTEM

HOT WATER*

DIRECT CIRCUIT*

MIXING CIRCUIT-(1)*

MIXING CIRCUIT-2*

HEAT GENERATOR* (HF)

SOLAR* (HF)

SOLID FUEL* (HF)

BUFFER* (HF)

CASCADE* (HF)

SUMMATION FLOW*(HF)

DATA BUS (HF)

RELAIS TEST (HF)
MALFUNCTION (HF)
SENSE-ADJUST (HF)

TIME-DATE

Following menu are available (turn central

- Depending on controller type and hydraulic settings
 - (HF) only visible in expert mode



Installation and settings

Menu- und parameter selection





From the layer menu selection it is possible to jump into the layer parameter selection by pressing the central button for short time

Parameters are described in the expert documentation.



Installation and settings

Step 1 Reset



Step 2



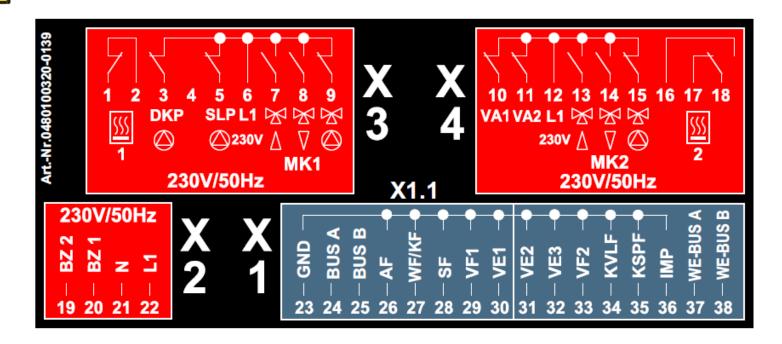
Factory reset (including switching times)





Installation and settings interfaces

The red fields are 240V AC area for power supply and AC outputs

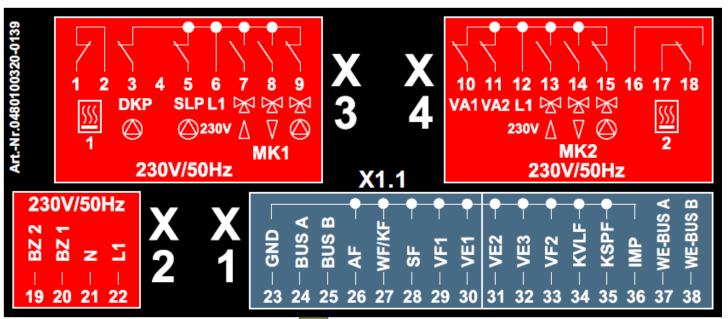


The blue field is low voltage area for input of senses and bus connection



Installation and settings

interface T2B



Bus connection for:

- additional THETA
 - THETA RS-L
 - THETA RFF
- heatapp! base T2B
- THETA ZM 0-10V



BUS A (24)/ BUS B (25) system bus T2B (THETA 2-wire BUS)





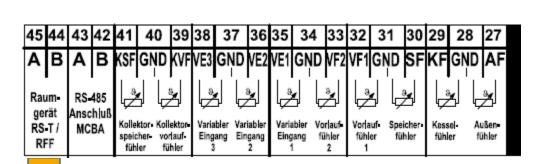


interface T2B

WG 500







BUS A (45)/ BUS B (44)

System bus T2B (THETA 2-wire BUS)

Bus connection for:

- additional THETA
 - THETA RS-L
 - THETA RFF
- heatapp! base T2B
 - THETA ZM 0-10V



Installation and settings

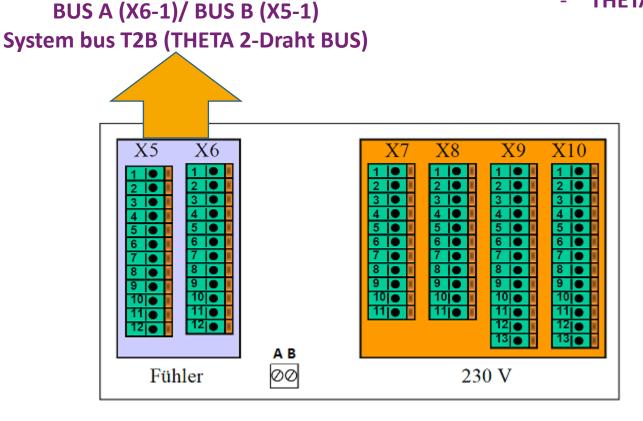


interface T2B

THETA-MSK

Bus connection for:

- additional THETA
 - THETA RS-L
 - THETA RFF
- heatapp! base T2B
- THETA ZM 0-10V





Installation and settings



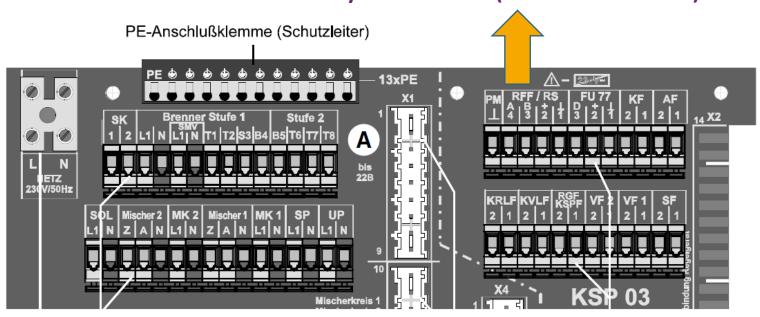
interface T2B

panel KSP 03

Bus connection for:

- additional THETA
 - THETA RS-L
 - THETA RFF
- heatapp! base T2B
- THETA ZM 0-10V

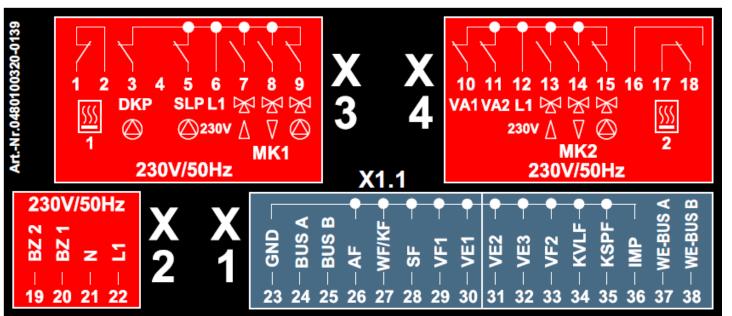
BUS A (4)/ BUS B (3)
System bus T2B (THETA 2-Draht BUS)





Installation and settings

interface WE-BUS



Bus connection
THETA type
(C or C-OT)
Connection to heat
generator
or ZM-KM-OT.



WE-BUS A (37)/ WE-BUS B (38)
Heat generator-BUS

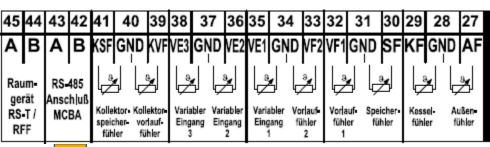




interface WE-BUS

WG 500







WE-BUS A (37)/ WE-BUS B (38) Heat generator-BUS Bus connection
THETA type
(C or C-OT)
Connection to heat
generator
or ZM-KM-OT.

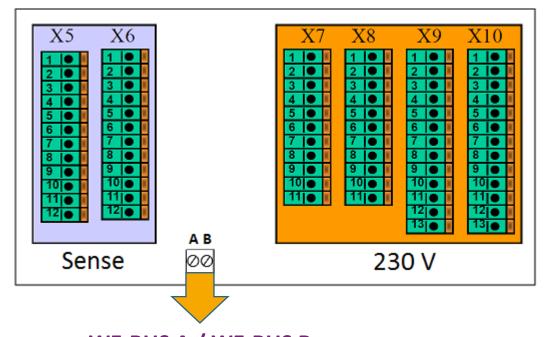


Installation and settings



interface WE-BUS

THETA-MSK



Bus connection
THETA type
(C or C-OT)
Connection to heat
generator
or ZM-KM-OT.

WE-BUS A / WE-BUS B Heat generator-BUS

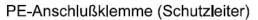


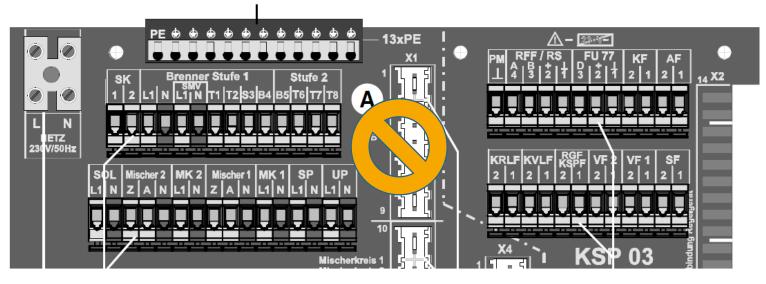
Installation and settings

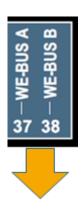
interface WE-BUS

panel KSP 03

Bus connection THETA type (C or C-OT) **Connection to heat** generator or ZM-KM-OT.





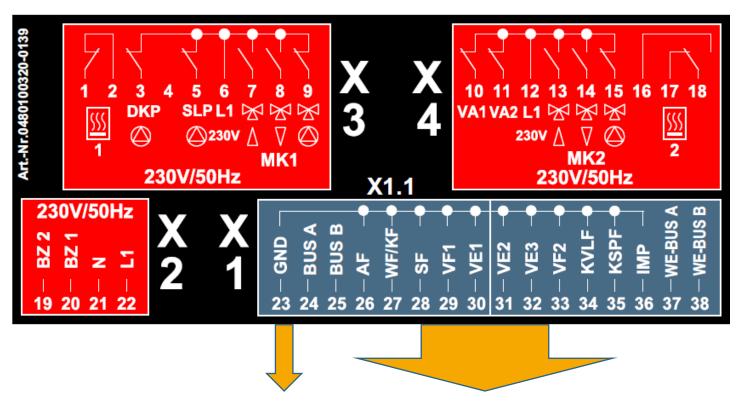


Connection heat generator BUS direct to THETA ReController



Installation and settings

Connection of sense

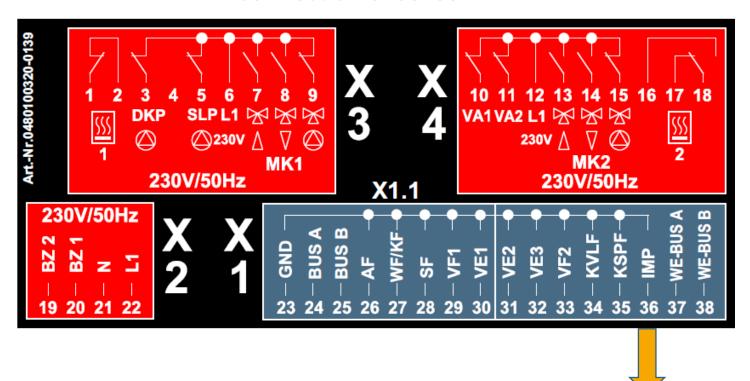


Input X1-26 bis 35 for connection of sense
Sense connection is 2 wire, one wire is connected to GND (X1-23)



Installation and settings

Connection of sense

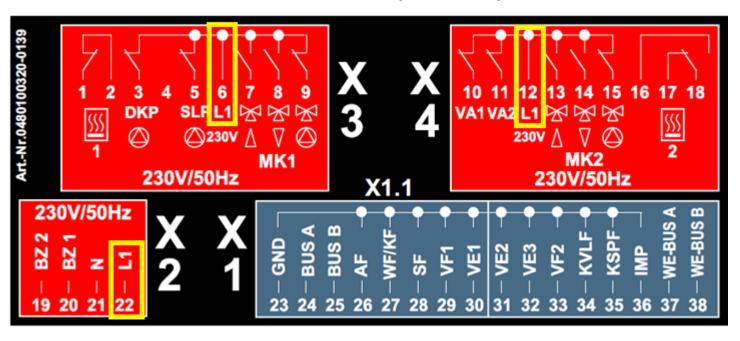


Input X1-36 (IMP) can be connected to pulse counter (analog ON/OFF) e.g. for counting of solar generation



Installation and settings

Connection of L1 (240V AC)

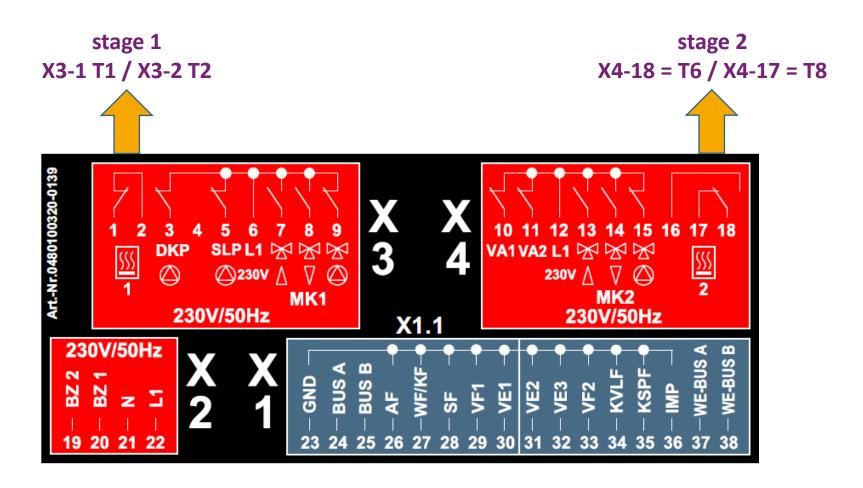


If THETA is <u>not</u> mounted inside panel KSP 03, WG 500 or THETA-MSK, then X3-6 und X4-12 (if available) must be connected to L1.



Installation and settings

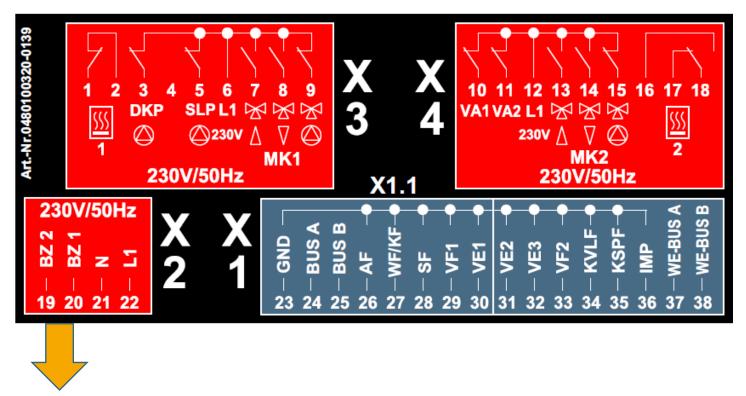
Connection of the heat boiler





Installation and settings

Connection of BZ 1 /BZ 2



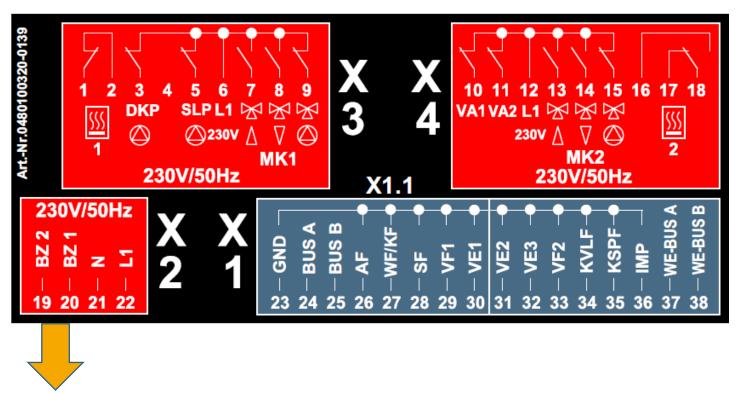
Via connection BZ1/BZ2 comes the status message of the heat boiler stage (ON/OFF). This information will be used to calculate the netto operating time of the heat boiler stage. The value is in the display in the INFO-menu parameters: operation time / starts

If BZ1/BZ2 is not used, the brutto operating time is calculated from release of the respective relay contact.



Installation and settings

Connection of BZ 1 /BZ 2



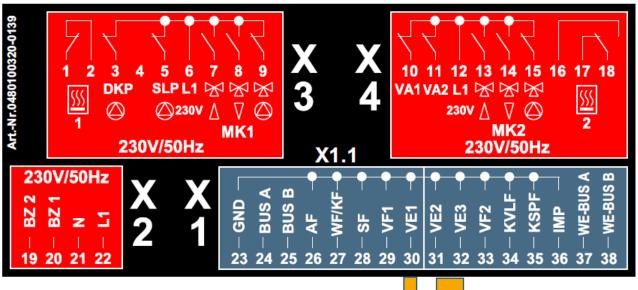
The status of connection BZ1/BZ2 is controlled to detect an error of the heat boiler. A malfunction message will be generated if the heat boiler is not switching ON or OFF.



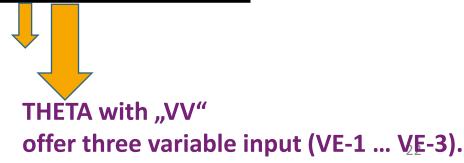
Installation and settings

Parameter setting

Parameter setting has to consider the hydraulic configuration at site.



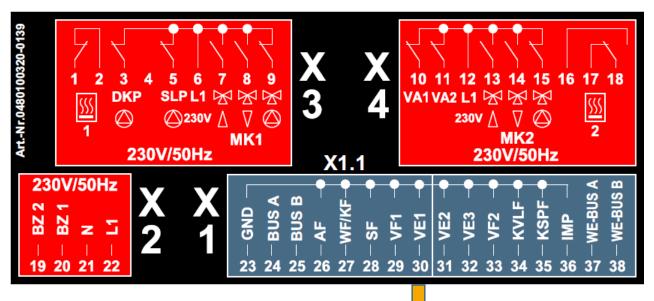
Each THETA offers minimum one variable input (VE-1).





Installation and settings

Parameter setting



THETA+ N2B
THETA+ N23B
THETA+ N233B

Variable input (VE-1) can be used e.g. for

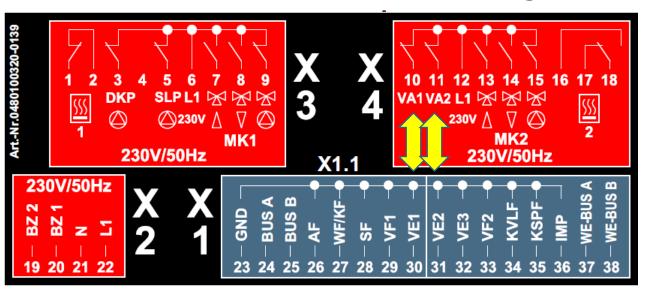
- exhaust sense
- external heat boiler blocking
- Requiring contact
- Buffer sense (without function for pump PLP)
- and others..

(for details consider expert documentation)



Installation and settings

Parameter setting



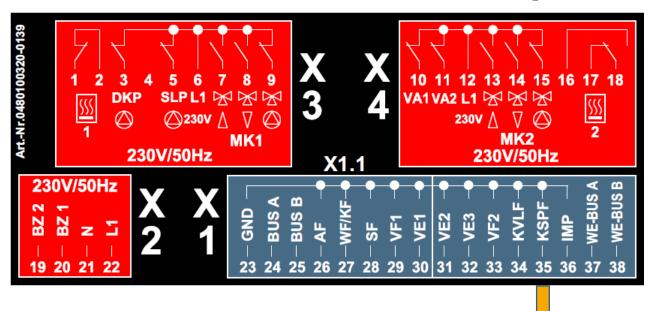
THETA+ N2233BVV
THETA+ N2233BVVC-OT

If buffer and solid fuel is activated, you have to consider that first the output function (VA) must be activated. This procedure has to be followed because the assignment of the senses is done automatically referring to the inputs. In case that the output function VA-1 (PLP, FSP, SLV) needs a related sense, then THETA will use the input VE-1 for this sense. If a sense is needed for a second function VA-2, then the second sense will be assigned to input VE-2.



Installation and settings

Parameter setting

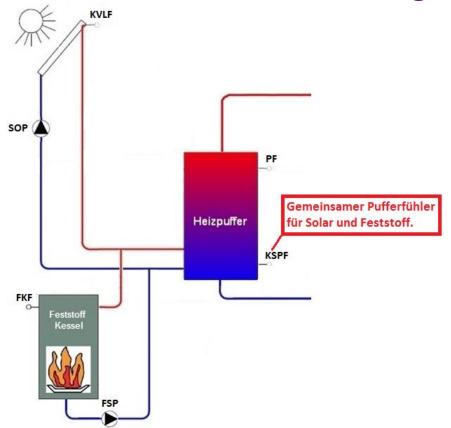


THETA+ N2233BVV
THETA+ N2233BVVC-OT

Sense KSPF (collector buffer sense) is used for two functions. It is assigned to solar and solid-fuel as buffer sense. Thus one sense can be "saved"



Installation and settings



THETA+ N2233BVV
THETA+ N2233BVVC-OT

Sense KSPF (collector buffer sense) is used for two functions. It is assigned to solar and solid-fuel as buffer sense. Thus one sense can be "saved"



Installation and settings

Parameter setting





Parameter list and parameter setting can be find in the expert documentation.

You will find the latest released expert documentation at our homepage www.ebv-gmbh.com
We support you with product description and samples for hydraulic configuration on request.



