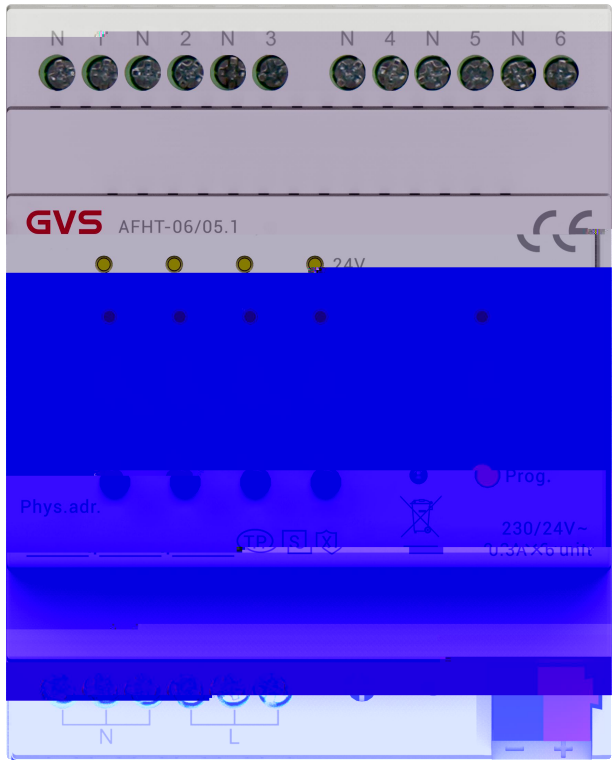
K-BUS



注意事项

1、请远离强磁场、高温、潮湿等环境；

2、不要将设备摔落在地上或使之受到强力冲击；

3、不要用强溶剂或易挥发性的试剂擦拭设备

6

24 230

6 60 715 35

.

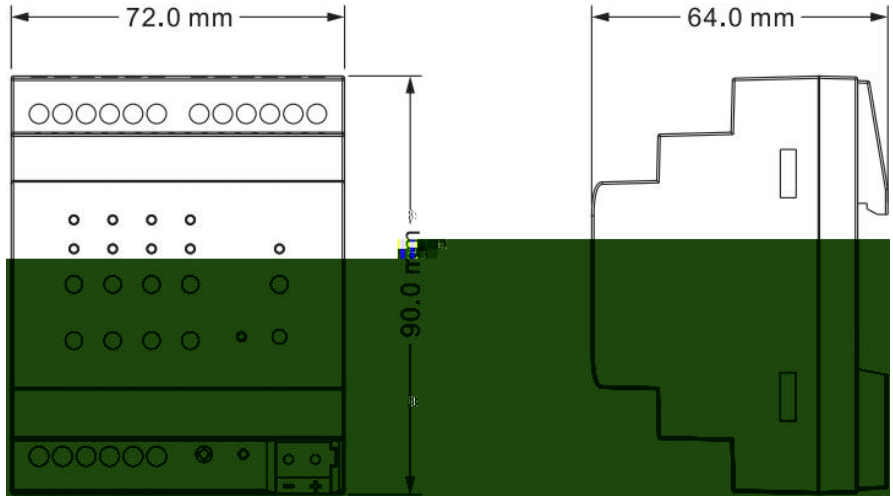
5.7

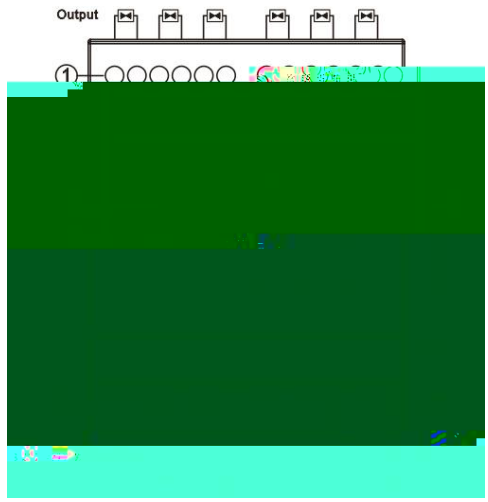
6

-
-
-

-
-
-
-
-
-
-
-

	21-30
	13.5 /24 11.5 /30 345
	24 / 230
	6
	300 35 24 / 230 /
	(/)
/	0.2-2.5 ^{2} 0.4 -
/ /	/
	5 ... + 45
	25 ... + 55 25 ... + 70
	3%,
	35
72 0 64	
0.3	





24 / 230

1 6 / - -

/ / 1 1

/ .

1 /

/

6

6

/ / 4

5

5.1 (1)

5.1(1)

KNX Data Secure is available in this device,it effectively protects user data against unauthorised access and manipulation by means of encryption and authentication for the installation.

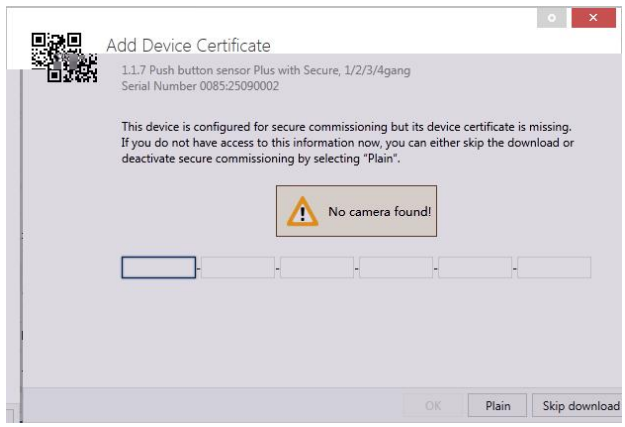
ETS can active or deactive security function.Detailed specialist knowledge is required.

The device certificate label stick called FDSK is attached beside the device,and must use for security function,make sure keep securely.

❖

❖ ,

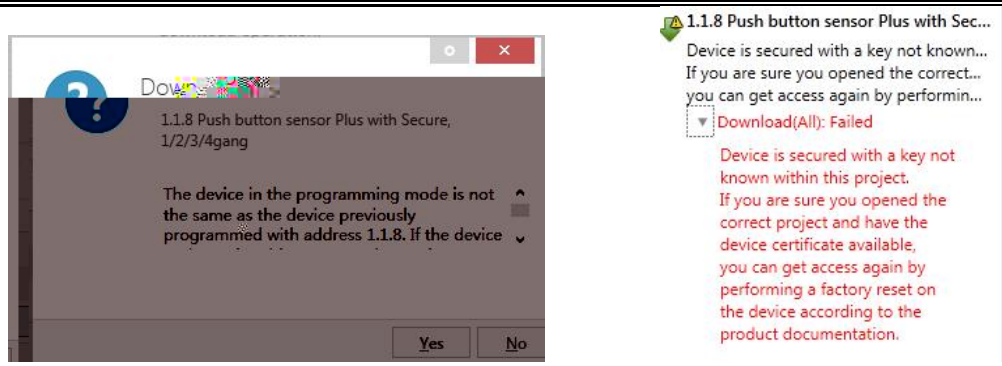
✧ 5.1 (2) m


Add Device Certificate
1.1.7 Push button sensor Plus with Secure, 1/2/3/4gang
Serial Number 0085:25090002
This device is configured for secure commissioning but its device certificate is missing.
If you do not have access to this information now, you can either skip the download or deactivate secure commissioning by selecting "Plain".
No camera found!
OK
Plain
Skip download

5.1(2) ' J

✧

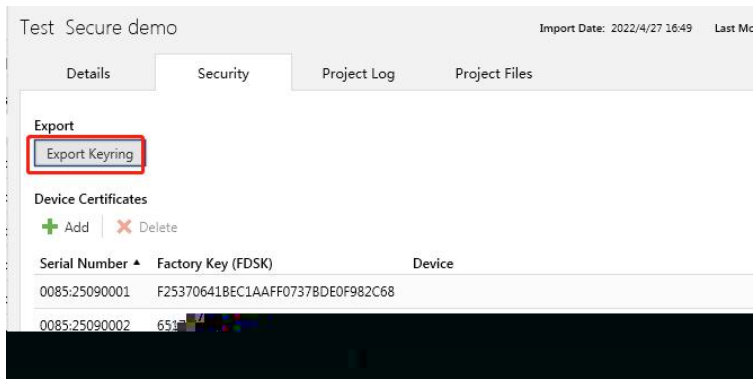
t/ +



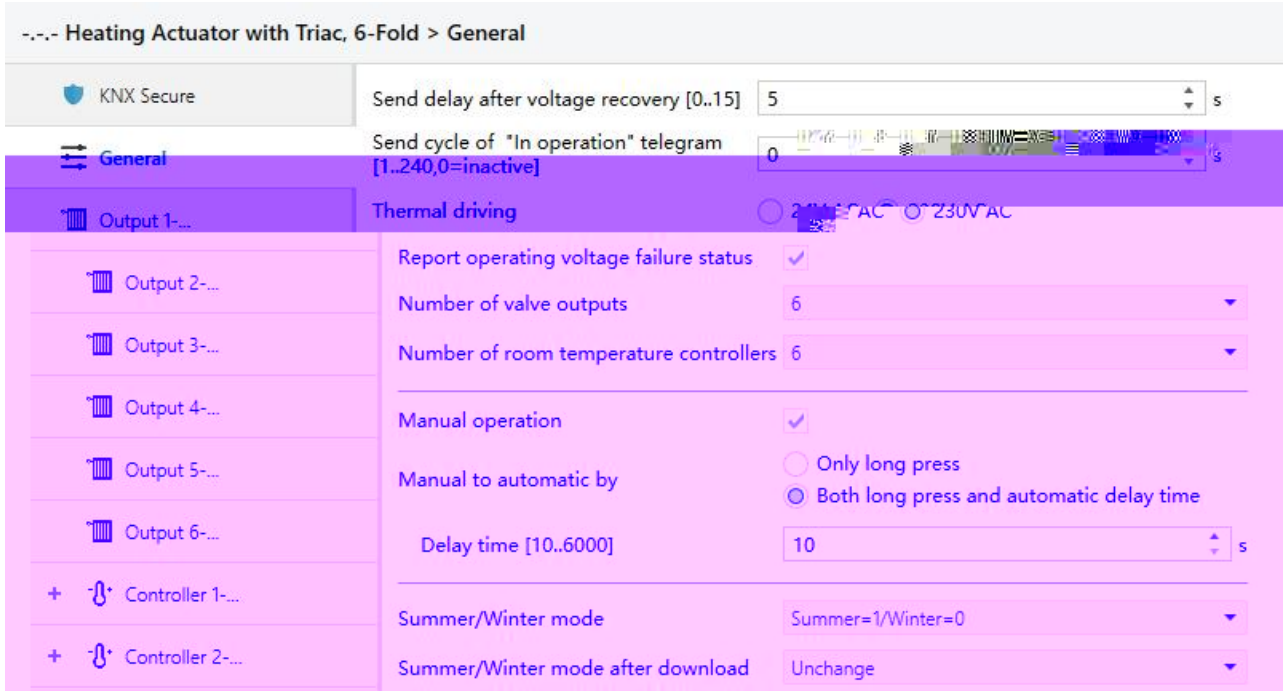
5.1(6)

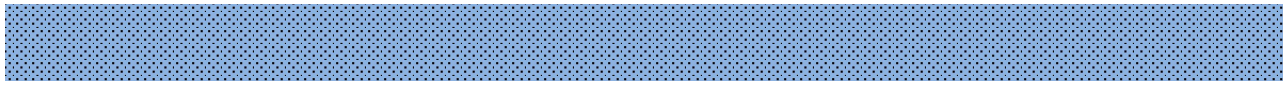
5.1(7)

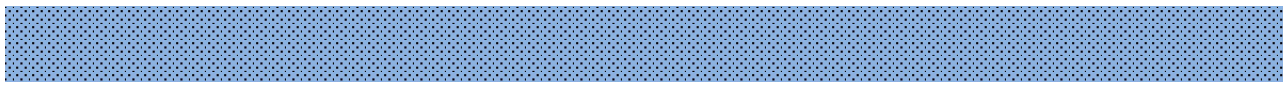
5.1(8) .

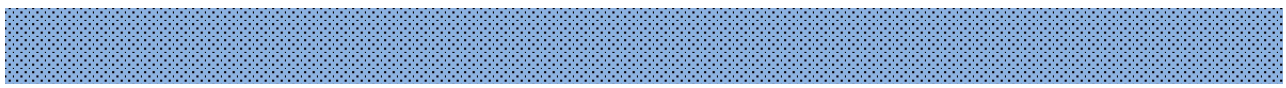


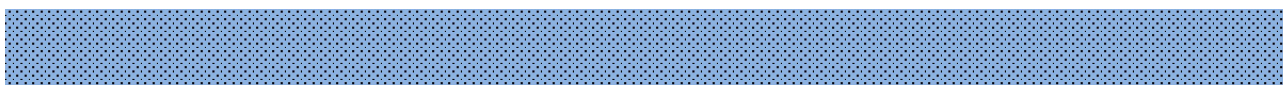
5.1(8)


-.-.- Heating Actuator with Triac, 6-Fold > General
KNX Secure
General
Output 1-...
Output 2-...
Output 3-...
Output 4-...
Output 5-...
Output 6-...
Controller 1-...
Controller 2-...
Send delay after voltage recovery [0..15]
5
s
Send cycle of "In operation" telegram [1..240,0=inactive]
0
s
Thermal driving
230V AC
Report operating voltage failure status
Number of valve outputs
6
Number of room temperature controllers
6
Manual operation
Manual to automatic by
Only long press
Both long press and automatic delay time
Delay time [10..6000]
10
s
Summer/Winter mode
Summer=1/Winter=0
Summer/Winter mode after download
Unchange







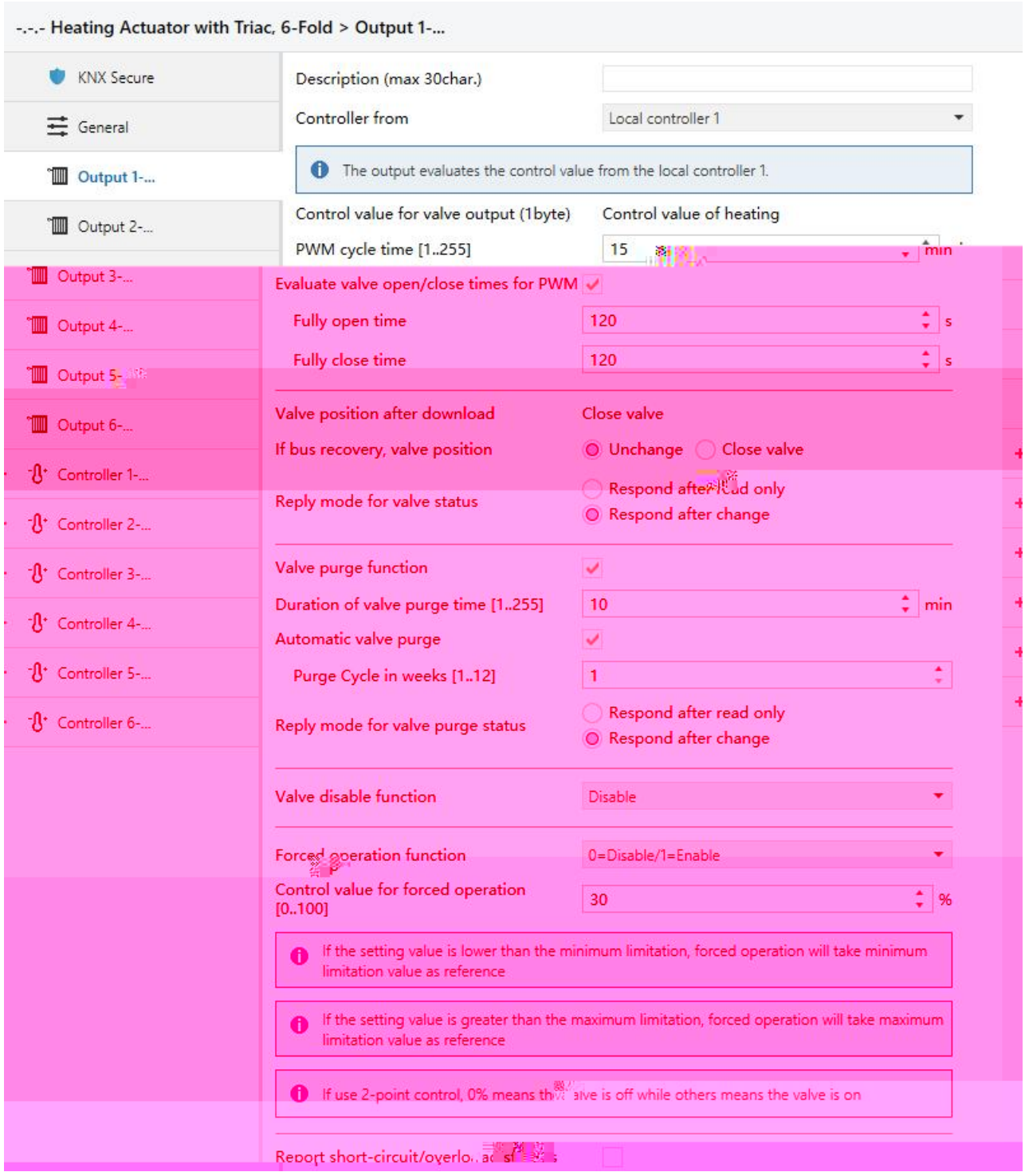


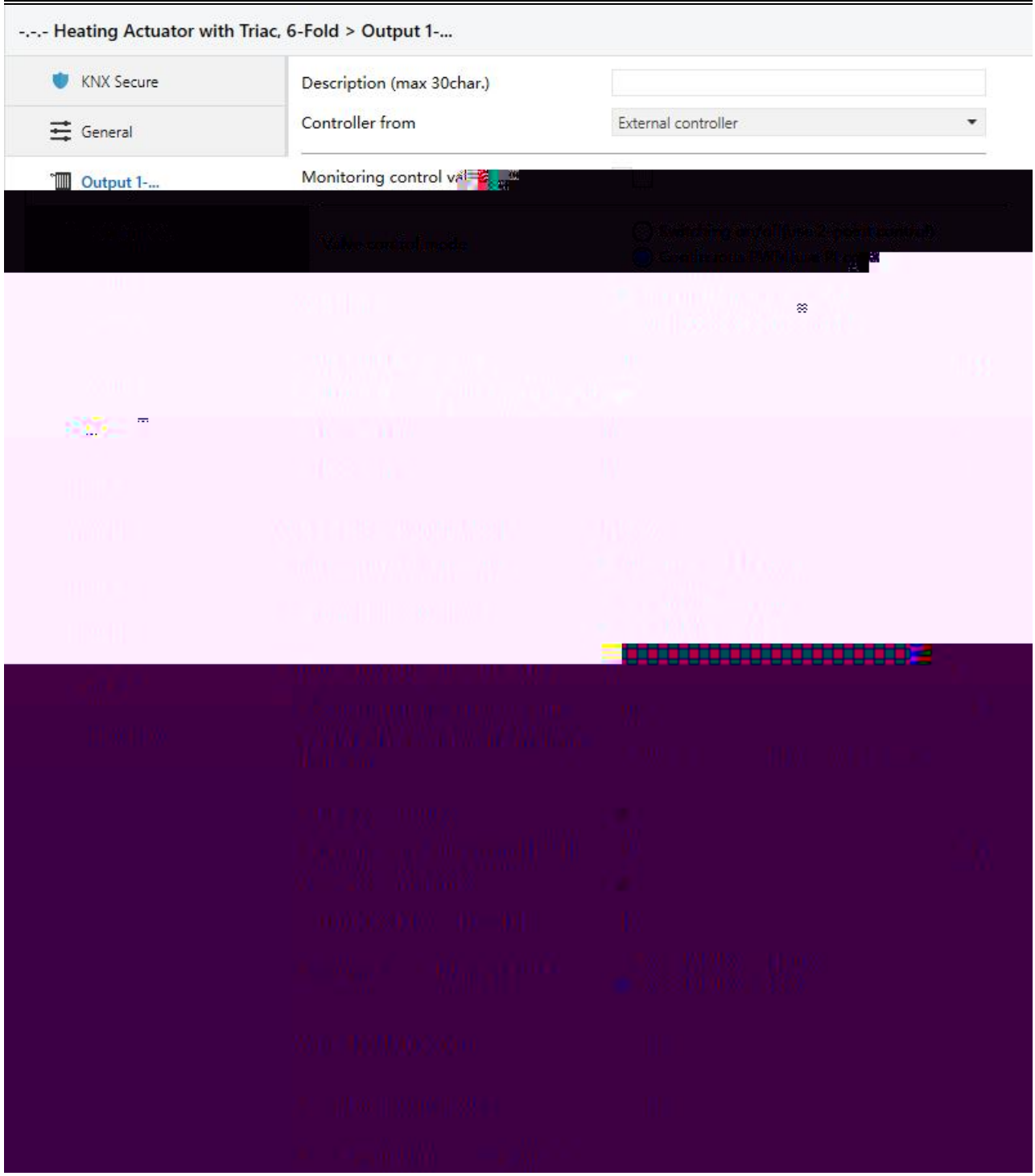
/

/

/ /

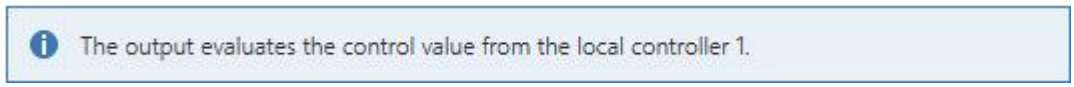
0


-.-.- Heating Actuator with Triac, 6-Fold > Output 1-...
KNX Secure
General
Output 1-...
Output 2-...
Output 3-...
Output 4-...
Output 5-...
Output 6-...
Controller 1-...
Controller 2-...
Controller 3-...
Controller 4-...
Controller 5-...
Controller 6-...
Description (max 30char.)
Controller from
Local controller 1
The output evaluates the control value from the local controller 1.
Control value for valve output (1byte)
Control value of heating
PWM cycle time [1..255]
15
min
Evaluate valve open/close times for PWM
Fully open time
120
s
Fully close time
120
s
Valve position after download
Close valve
If bus recovery, valve position
Unchange
Close valve
Reply mode for valve status
Respond after read only
Respond after change
Valve purge function
Duration of valve purge time [1..255]
10
min
Automatic valve purge
Purge Cycle in weeks [1..12]
1
Reply mode for valve purge status
Respond after read only
Respond after change
Valve disable function
Disable
Forced operation function
0=Disable/1=Enable
Control value for forced operation [0..100]
30
%
If the setting value is lower than the minimum limitation, forced operation will take minimum limitation value as reference
If the setting value is greater than the maximum limitation, forced operation will take maximum limitation value as reference
If use 2-point control, 0% means th
alve is off while others means the valve is on
Report short-circuit/overlo


-.-.- Heating Actuator with Triac, 6-Fold > Output 1-...
KNX Secure
General
Output 1-...
Description (max 30char.)
Controller from
External controller
Monitoring control va

-

5.3



....(1) ....(1) ...(1 /1)

/ (2-) ( )

1 ( ) 1 /

1 /1

/ 2

/ 4

/

/

0% 0%

( )

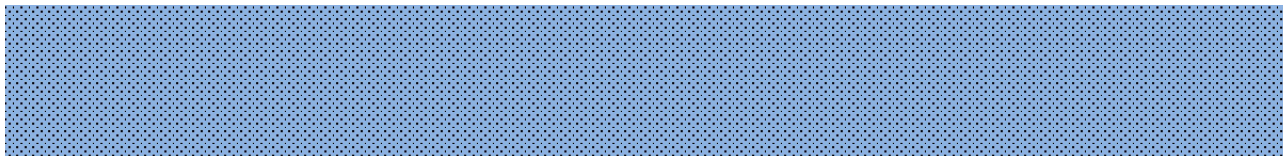
( )

(-) (-)

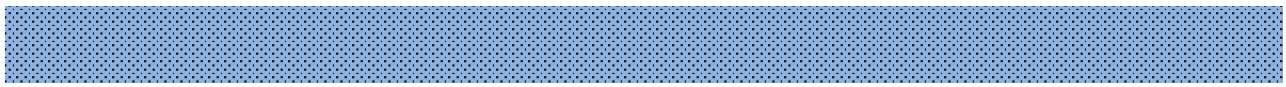
( )

20% 15 3 12 60%

6



( )

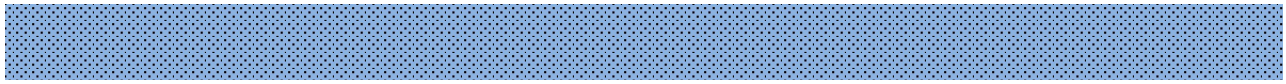


( )

0% 0% 0%

0%

0%



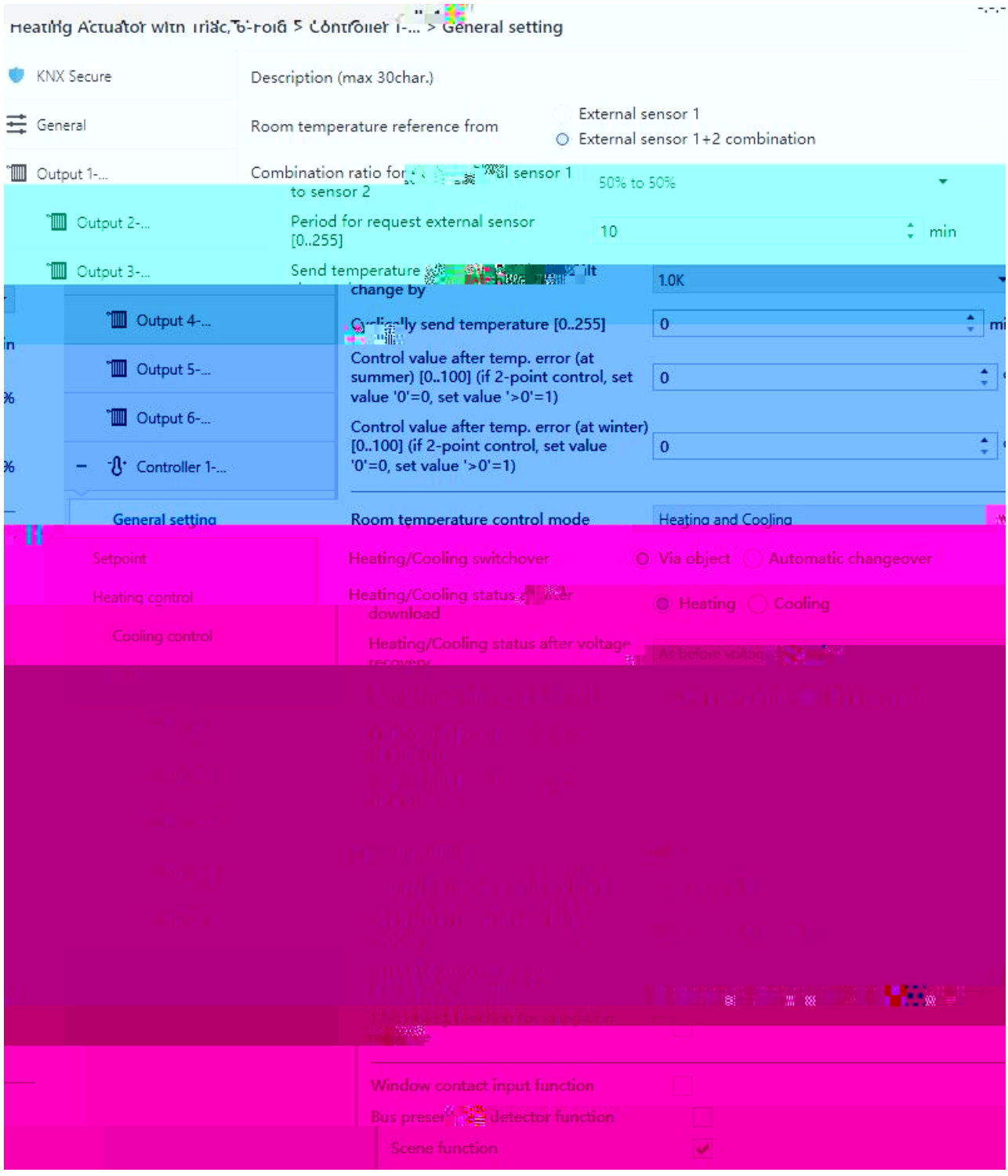
4

/ /

1 0% 0%

If the setting value is greater than the maximum limitation, forced operation will take maximum limitation value as reference

If use 2-point control, 0% means the valve is off while others means the valve is on


Heating Actuator with Triac, 6-fold > Controller 1-... > General setting
KNX Secure
General
Output 1-...
Output 2-...
Output 3-...
Output 4-...
Output 5-...
Output 6-...
Controller 1-...
General setting
Setpoint
Heating control
Cooling control
Description (max 30char.)
Room temperature reference from
External sensor 1
External sensor 1+2 combination
Combination ratio for
to sensor 2
50% to 50%
Period for request external sensor [0..255]
10
min
change by
1.0K
Cyclically send temperature [0..255]
0
Control value after temp. error (at summer) [0..100] (if 2-point control, set value '0'=0, set value '>0'=1)
0
Control value after temp. error (at winter) [0..100] (if 2-point control, set value '0'=0, set value '>0'=1)
0
Room temperature control mode
Heating and Cooling
Heating/Cooling switchover
Via object
Automatic changeover
Heating/Cooling status after download
Heating
Cooling
Heating/Cooling status after voltage recovery
As before voltag
Window contact input function
Scene function

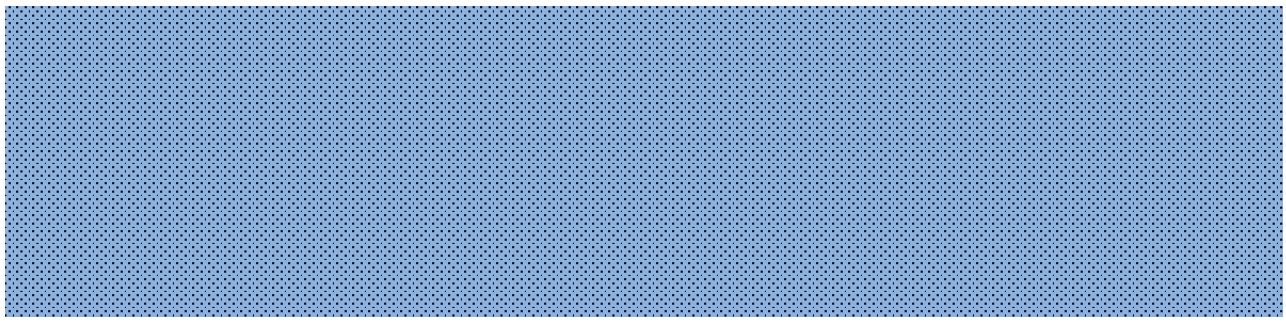
5.4.1

2

40% 60% 40% 60%

1 40% + 2 60%

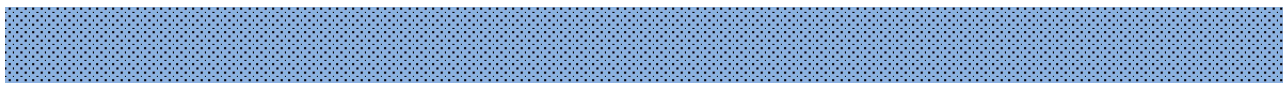
0



/ /

0 0 0

1



/

/

/

2

4

/

4 1 1

0 1

1 1

/

1 1

0

1

The setpoint is less than minimum,so minimum will regard as setpoint in fact

The setpoint is greater than maximum,so maximum will regard as setpoint in fact

/

+

-

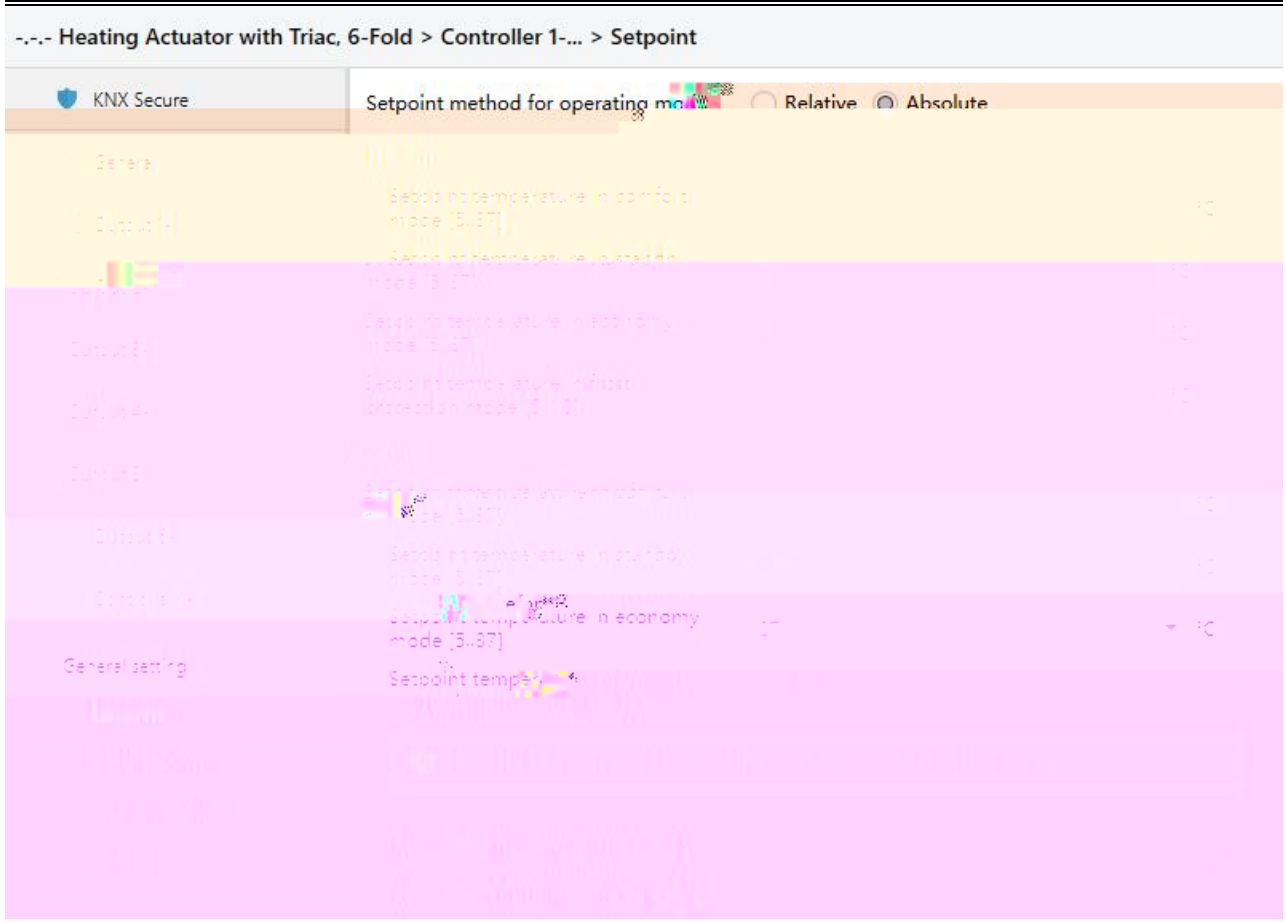
/

/

8Ñ

-.-.- Heating Actuator with Triac, 6-Fold > Controller 1-... > Setpoint
KNX Secure
General
Output 1-...
Output 2-...
Output 3-...
Output 4-...
Output 5-...
Output 6-...
Controller 1-...
General setting
Setpoint
Heating control
Cooling control
Scene
Setpoint method for operating mode
Relative
Absolute
Base setpoint temperature
20.0
°C
Additional setpoint offset for adjustment
Disable
Enable
Step of setpoint offset
0.5K
1K
Min. setpoint offset [-10..0]
-5
Max. setpoint offset [0..10]
5
Heating
Reduced heating in standby mode [0..10]
2
Reduced heating in economy mode [0..10]
4
Setpoint temperature in frost protection mode [5..10]
7
Cooling
Increased cooling in standby mode [0..10]
2
Increased cooling in economy mode [0..10]
4
Setpoint temperature in heat protection mode [30..37]
Min. setpoint temperature [5..37]
Max. setpoint temperature [5..37]

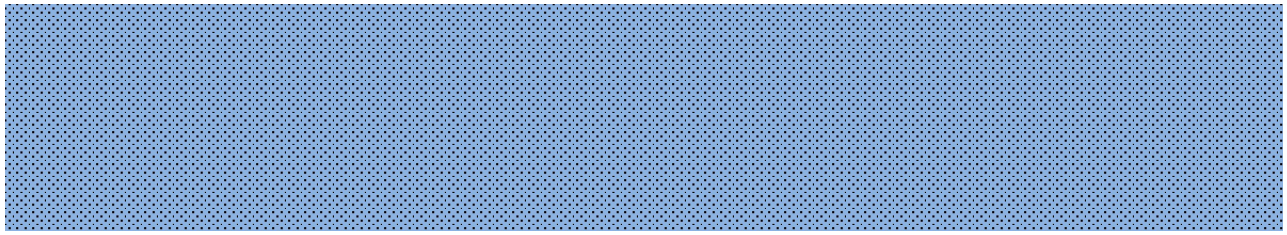
5.4.2(1)


-.-.- Heating Actuator with Triac, 6-Fold > Controller 1-... > Setpoint
KNX Secure
Setpoint method for operating mo
Relative
Absolute
mode [5..37]
°C
General setting
Setpoint temp

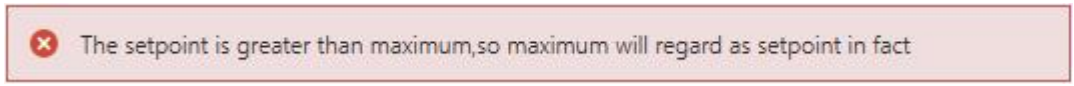
5.4.2(2)

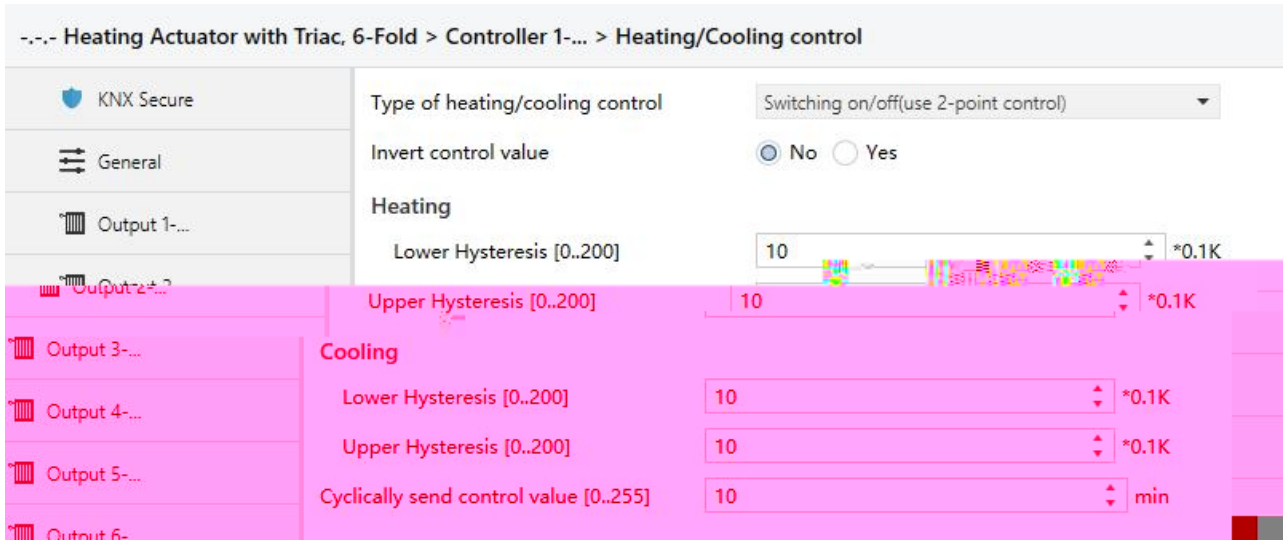
+

-

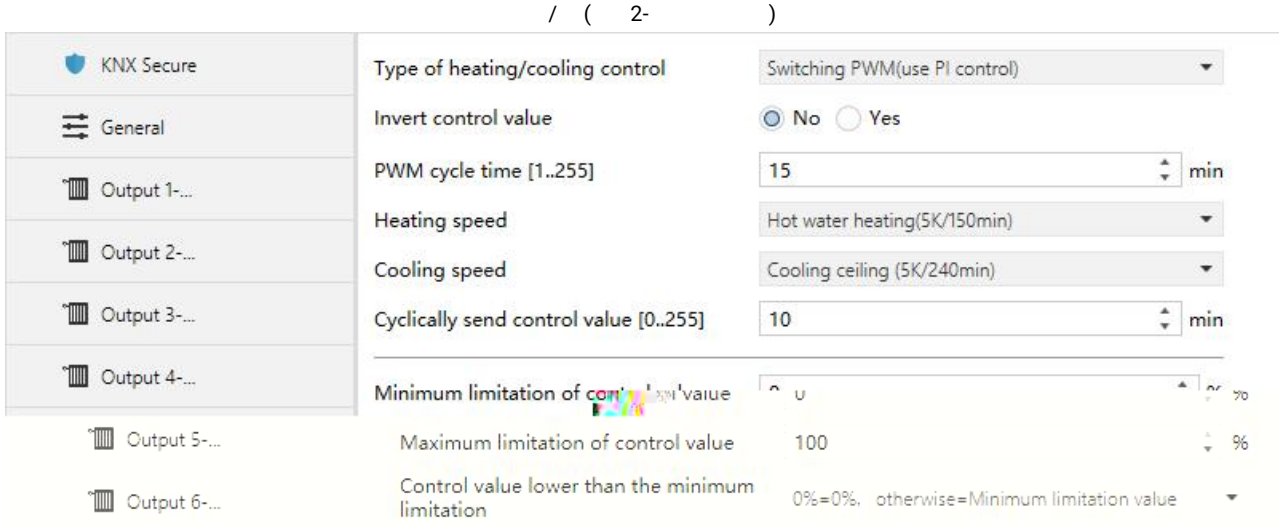


/ /


The setpoint is greater than maximum,so maximum will regard as setpoint in fact


-.-.- Heating Actuator with Triac, 6-Fold > Controller 1-... > Heating/Cooling control
KNX Secure
General
Output 1-...
Output 3-...
Output 4-...
Output 5-...
Output 6-...
Type of heating/cooling control
Switching on/off(use 2-point control)
Invert control value
No
Yes
Heating
Lower Hysteresis [0..200]
10
*0.1K
Upper Hysteresis [0..200]
10
*0.1K
Cooling
Lower Hysteresis [0..200]
10
*0.1K
Upper Hysteresis [0..200]
10
*0.1K
Cyclically send control value [0..255]
10
min

/ (2-)


KNX Secure
General
Output 1-...
Output 2-...
Output 3-...
Output 4-...
Output 5-...
Output 6-...
Type of heating/cooling control
Switching PWM(use PI control)
Invert control value
No
Yes
PWM cycle time [1..255]
15
min
Heating speed
Hot water heating(5K/150min)
Cooling speed
Cooling ceiling (5K/240min)
Cyclically send control value [0..255]
10
min
Maximum limitation of control value
100
%
Control value lower than the minimum limitation
0%=0%, otherwise=Minimum limitation value

( )

1 2 22 24

21 21 24 ɑ l'

1 2 26

( )

0% 0% 0%

0%

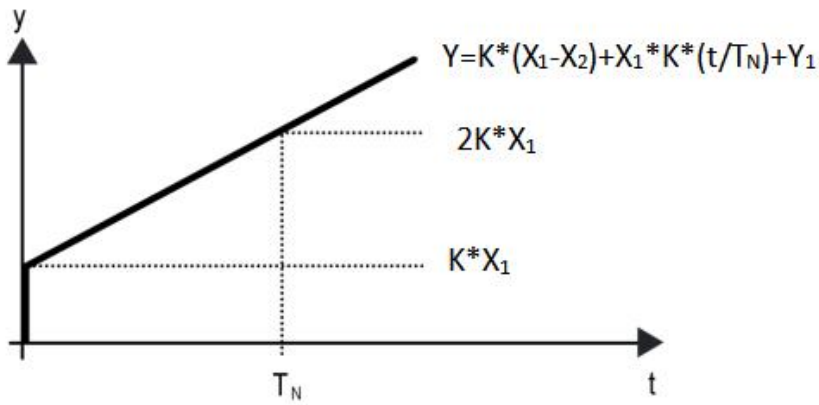
0%

	5	150		15
	5	240		15-20
	4	100		10-15
	4	0		10-15

	5	240		15-20
	4	0		10-15

/

0



5.4.3(3)

1

1

2

(1- 2 + 1 * / + 1

1- 2 + 2

-.-.- Heating Actuator with Triac, 6-Fold > Controller 1-... > Scene
KNX Secure
General
Cutout 1-..
1->Assign scene NO.[1..64,0=inactive]
Operation mode
2->Assign scene NO.[1..64,0=inactive]
2
Operation mode

5.4.4

5

0

The setpoint is less than minimum,so minimum will regard as setpoint in fact

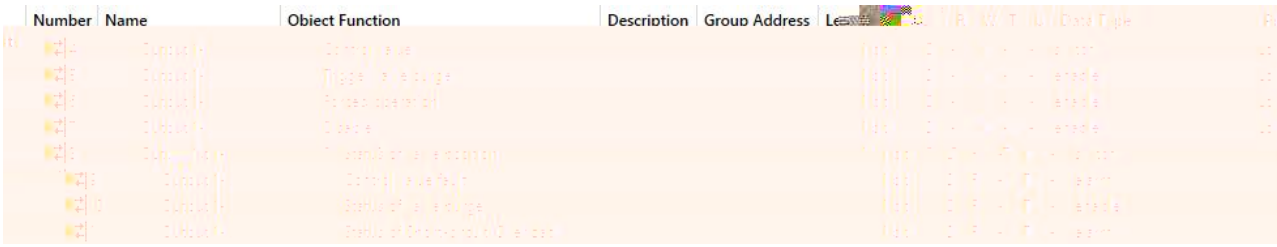
The setpoint is greater than maximum,so maximum will regard as setpoint in fact

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	General	In operation			1 bit	C	R	-	T	-	switch	Low
2	General	Summer/Winter mode			1 bit	C	-	W	T	U	switch	Low
3	General	Status of operating voltage failure			1 bit	C	R	-	T	-	alarm	Low

6.1

1					
/					
24 230 1 0 24 2.5 48 2.5 48 230 48 48					

6.1



6.2

1

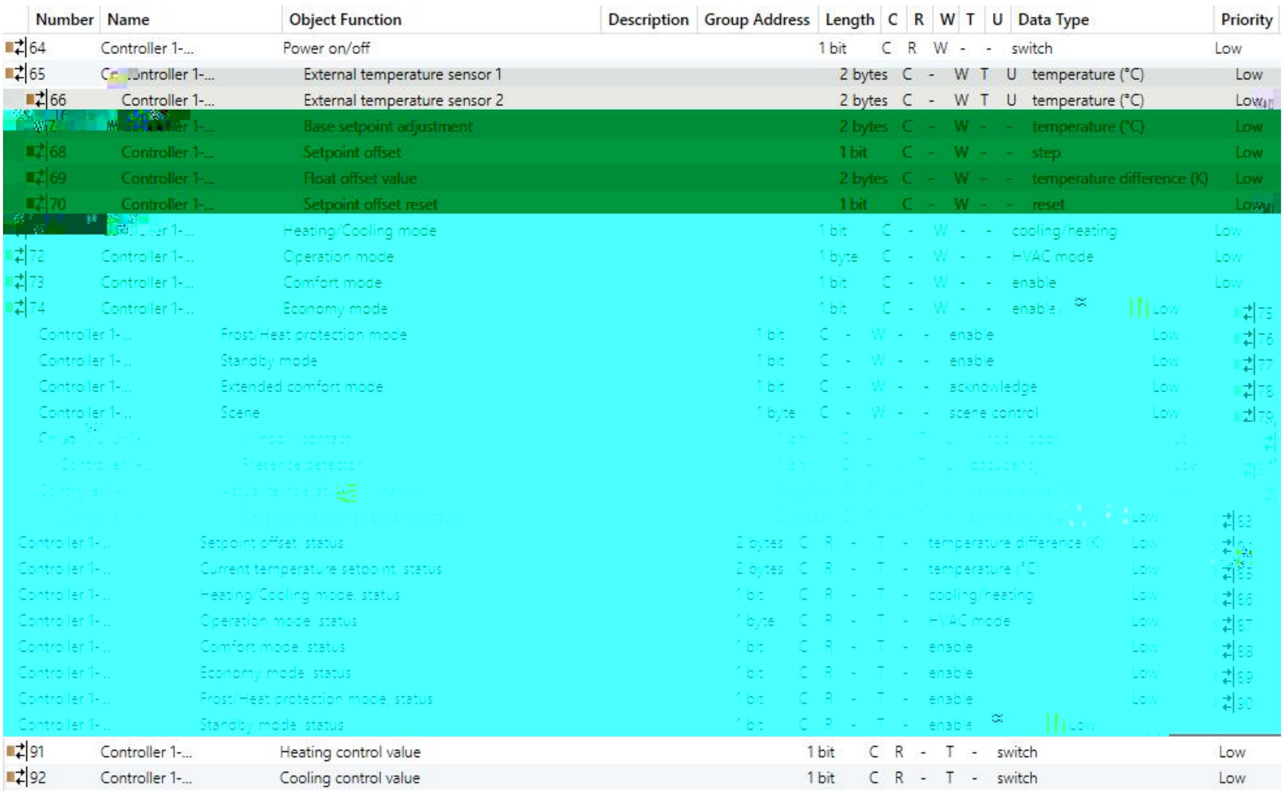
1

(30 .)

1-...

1 0					
1 0					

6.2



Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
64	Controller 1-...	Power on/off			1 bit	C	R	W	-	-	switch	Low
65	Controller 1-...	External temperature sensor 1			2 bytes	C	-	W	T	U	temperature (°C)	Low
66	Controller 1-...	External temperature sensor 2			2 bytes	C	-	W	T	U	temperature (°C)	Low
67	Controller 1-...	Base setpoint adjustment			2 bytes	C	-	W	-	-	temperature (°C)	Low
68	Controller 1-...	Setpoint offset			1 bit	C	-	W	-	-	step	Low
69	Controller 1-...	Float offset value			2 bytes	C	-	W	-	-	temperature difference (K)	Low
70	Controller 1-...	Setpoint offset reset			1 bit	C	-	W	-	-	reset	Low
71	Controller 1-...	Heating/Cooling mode			1 bit	C	-	W	-	-	cooling/heating	Low
72	Controller 1-...	Operation mode			1 byte	C	-	W	-	-	HVAC mode	Low
73	Controller 1-...	Comfort mode			1 bit	C	-	W	-	-	enable	Low
74	Controller 1-...	Economy mode			1 bit	C	-	W	-	-	enable	Low
75	Controller 1-...	Frost/Heat protection mode			1 bit	C	-	W	-	-	enable	Low
76	Controller 1-...	Standby mode			1 bit	C	-	W	-	-	enable	Low
77	Controller 1-...	Extended comfort mode			1 bit	C	-	W	-	-	acknowledge	Low
78	Controller 1-...	Scene			1 byte	C	-	W	-	-	scene control	Low
[illegible]												
[illegible]												
[illegible]												
[illegible]												
83	Controller 1-...	Setpoint offset status			2 bytes	C	R	-	T	-	temperature difference (K)	Low
84	Controller 1-...	Current temperature setpoint status			2 bytes	C	R	-	T	-	temperature (°C)	Low
85	Controller 1-...	Heating/Cooling mode status			1 bit	C	R	-	T	-	cooling/heating	Low
86	Controller 1-...	Operation mode status			1 byte	C	R	-	T	-	HVAC mode	Low
87	Controller 1-...	Comfort mode status			1 bit	C	R	-	T	-	enable	Low
88	Controller 1-...	Economy mode status			1 bit	C	R	-	T	-	enable	Low
89	Controller 1-...	Frost/Heat protection mode status			1 bit	C	R	-	T	-	enable	Low
90	Controller 1-...	Standby mode status			1 bit	C	R	-	T	-	enable	Low
91	Controller 1-...	Heating control value			1 bit	C	R	-	T	-	switch	Low
92	Controller 1-...	Cooling control value			1 bit	C	R	-	T	-	switch	Low

6.3

1

0

(30 .) 1

- ...

2

-50 .8

1

0

2

1

1

0

1 72 1- 2- 3- 4-

1

73

74

75

76

1 1 0

1 1 0

1

0

1 1

/

/

1

0

1

0

		+		+	
1 86 1- 2- 3- 4- 1 87 88 8 0 1 1 0 1 1					

1	/ - 2- /	
1	- /	
1	( )	0..100%

6.3