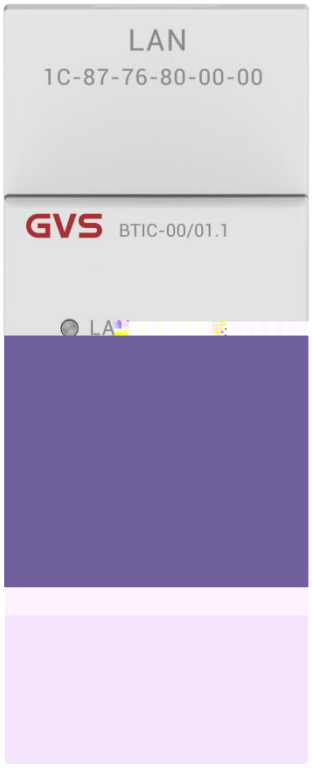
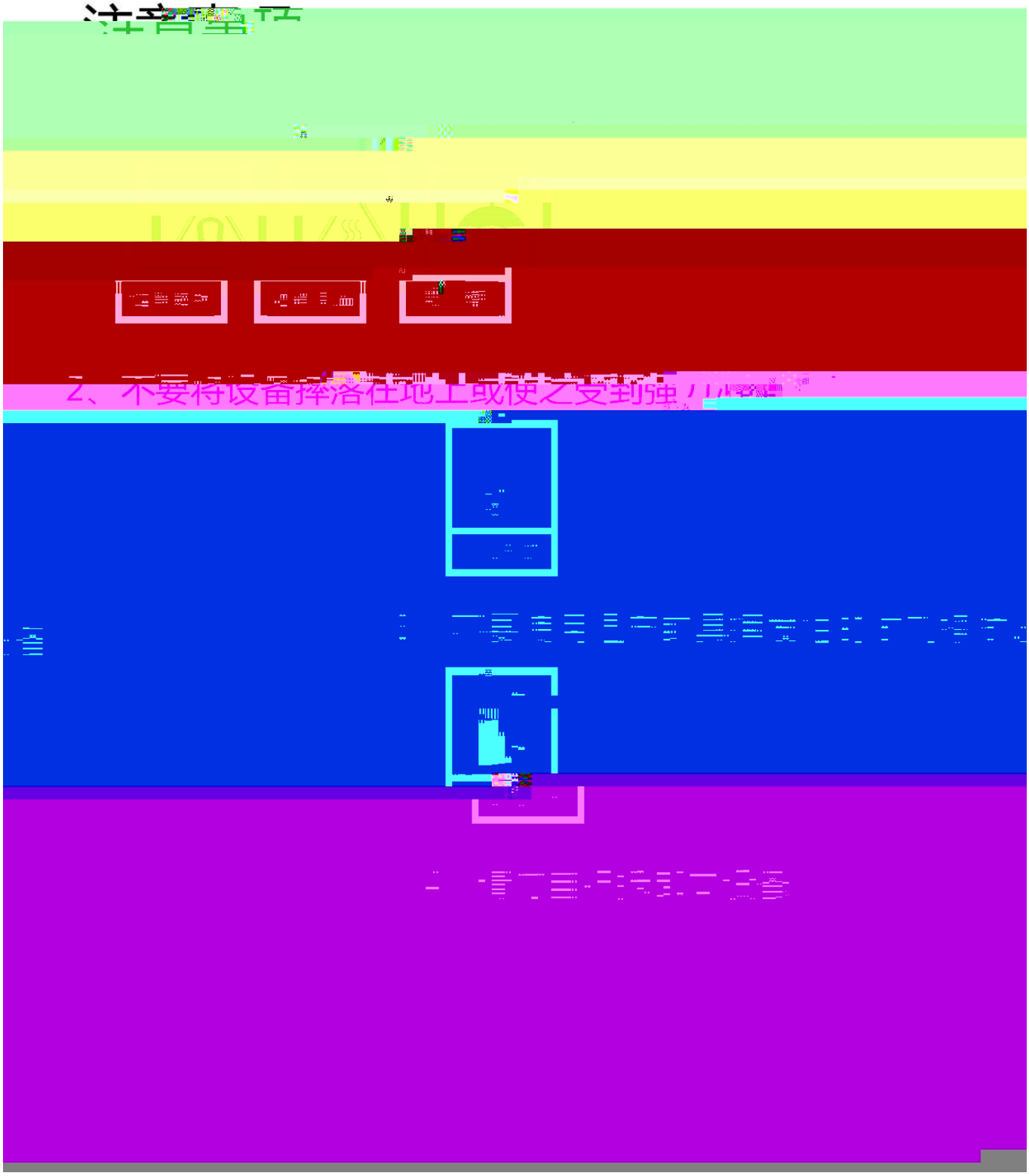
KNX-MQTT-HA □

KNX-MQTT-HA Gateway_V1.1

BTIC-00/01.1



KNX/EIB □ □



□ □ 1
□ 2
□ □ 3
3.1. 3
3.2. □ 3
□ □ □ □□ 4
□ □ ETS □ □□□ 5
5.1. □□ □“General” 5
5.1.1. MQTT □□ 5
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5.2. □□ □“Select Options” 9
5.2.1. □□ □“Select Template” 11

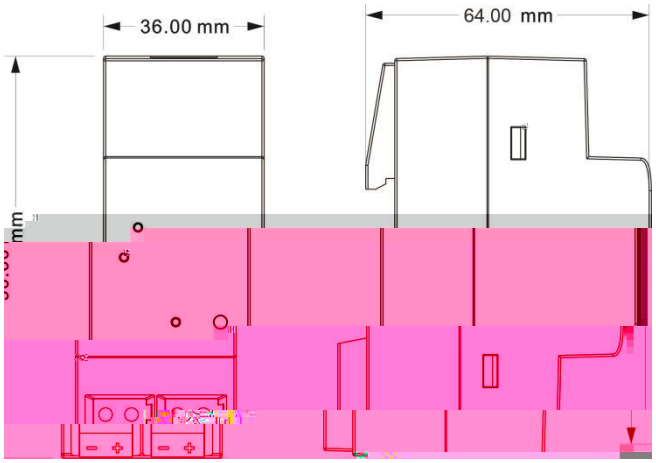
KNX/EIB KNX-MQTT-HA

□ □

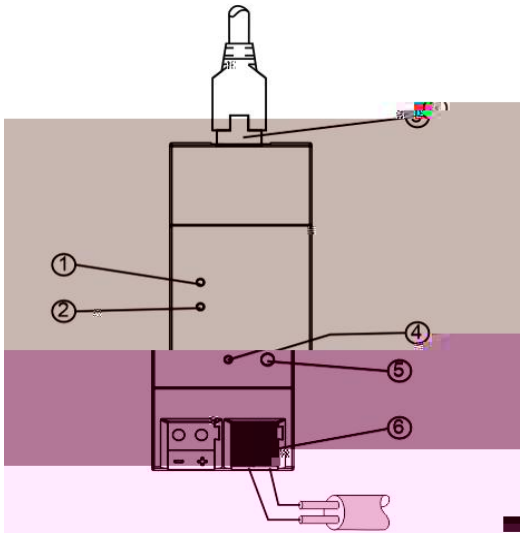
	□	21-30V DC, □ □ KNX □ □
	□	19.5mA/24V□15.5mA/30V
	□ □	470mW
□	KNX	□ □ □ (□/□)
	LAN	RJ45 □ 10/100 Base-T
	LAN LED	: □ □ □
		□: □ □ □ □ □ □
	KNX LED	: □ KNX □ □
		□: □ □
	□ □ □ □ LED	□
□	□ □	– 5 °C ... 45 °C
		– 25 °C ... 55 °C
	□ □	– 25 °C ... 70 °C
		<93%□ □ □
□	DIN □ □ □35mm □ □ □	
	36 × 90 × 64mm	
□ □	0.1kg	

□ □ □

3.1.



3.2. □



LAN LED ϟ □ LED

ϝ KNX LED □ □

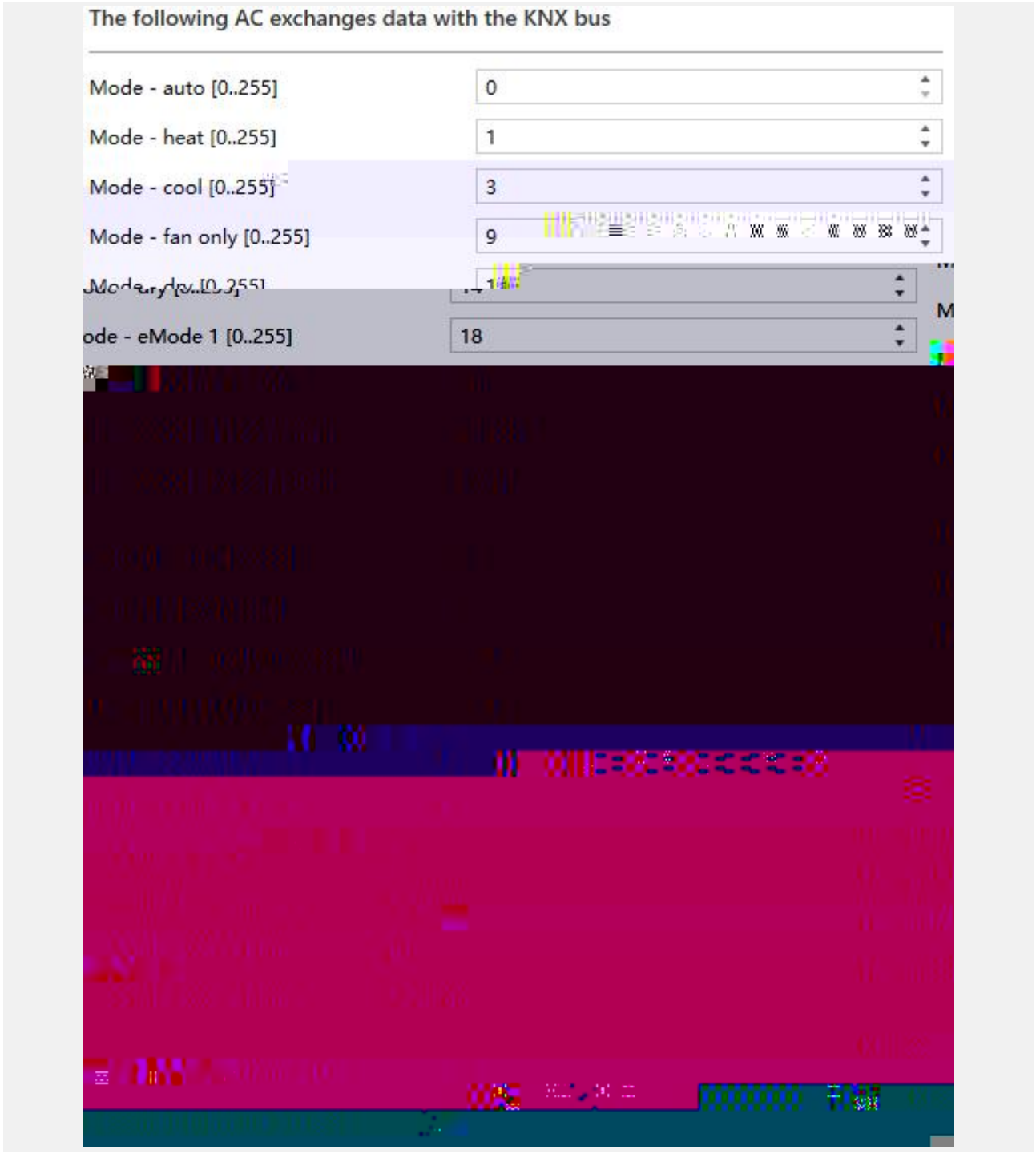
ϒ LAN □ ϗ KNX □ □ □

□ □ □ □ □ □ □ □ □ **4** □ □ **4** □ □ **3** □

□ □ □ □□

	□□ □	□	□	□
KNX-MQTT-HA Gateway/00D8 1.0	**1691**	**2048**	**2048**	**768**

5.1.2.AC KNX □ □□□□


The following AC exchanges data with the KNX bus
Mode - auto [0..255]
0
Mode - heat [0..255]
1
Mode - cool [0..255]
3
Mode - fan only [0..255]
9
ode - eMode 1 [0..255]
18



5.1.2 “General setting” □ □ □

The following AC exchanges data with the KNX bus AC □ KNX □ □ □ □ □

“Mode - ... [0..255]”

□ □ □ □ □ □ □ □ **0..255**

“Fan Speed - ... [0..255]”

□ □ □ □ □ □ □ □ □ **0..255**

“Fan Swing - ... [0..255]”

□ □ □ □ □ □ □ □ □ **0..255**

“Temperature Min.[10..32]”

“Temperature Max.[10..32]”

□ □ □ □ □ □ □ □ k □ □ □ □ □ □ □ k

□ □ □ **10..32 -C**

□ □ □ □ k

"...eMode.x desc."

□ □□ □ x□eMode.x□ □□ □ 8 □ k

5.2. □□ □“Select Options”

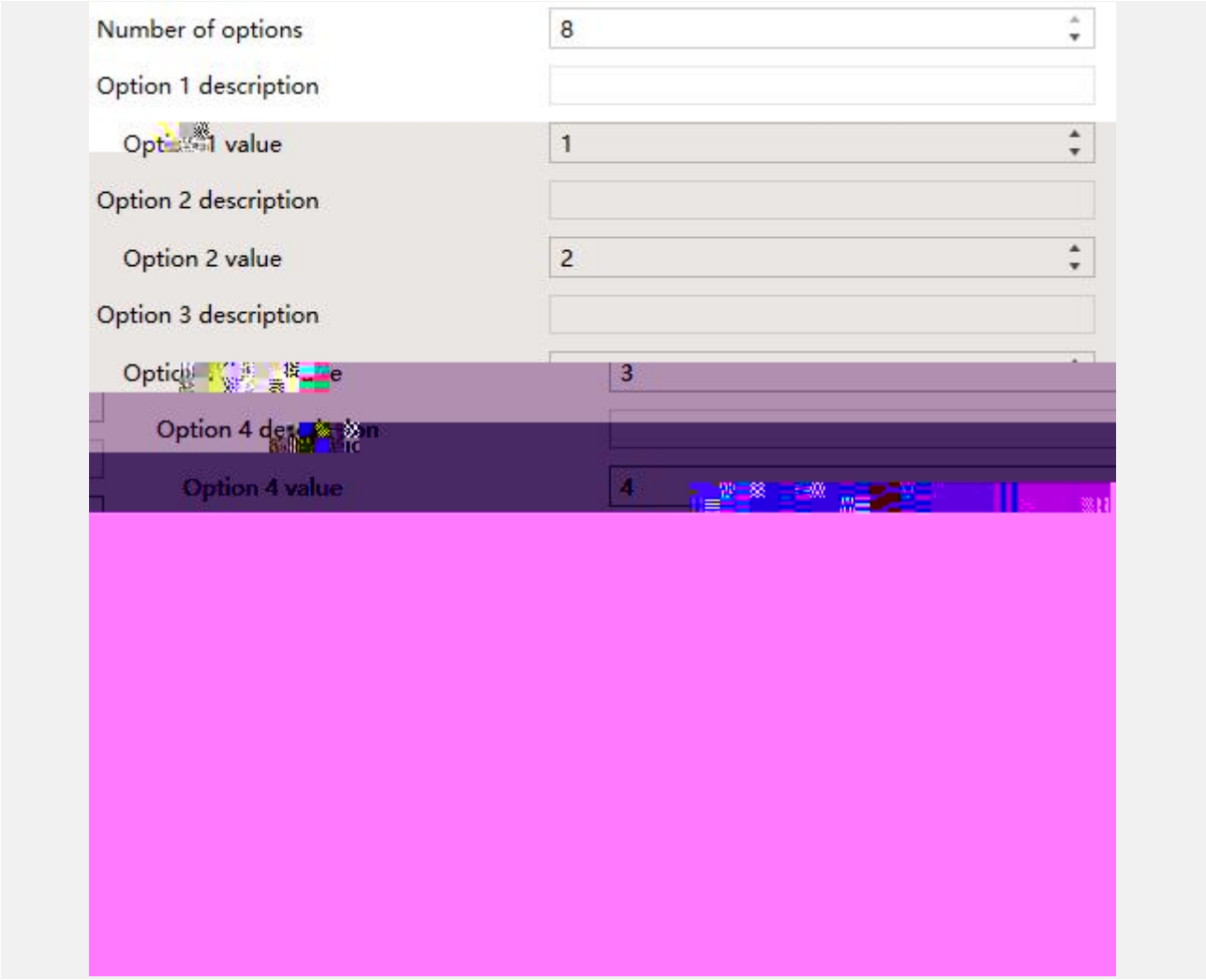


5.2 “Select Options” □□ □

“Number of templates”

□□ KNX-MQTT-HA □ □ᵏ □□□**1...8**

5.2.1. □□ □“Select Template x□x=1~8□”



5.2.1 “Select Template x” □□ □

"Number of options"

□ □ □ □ □ k □ □ □ **1...8**

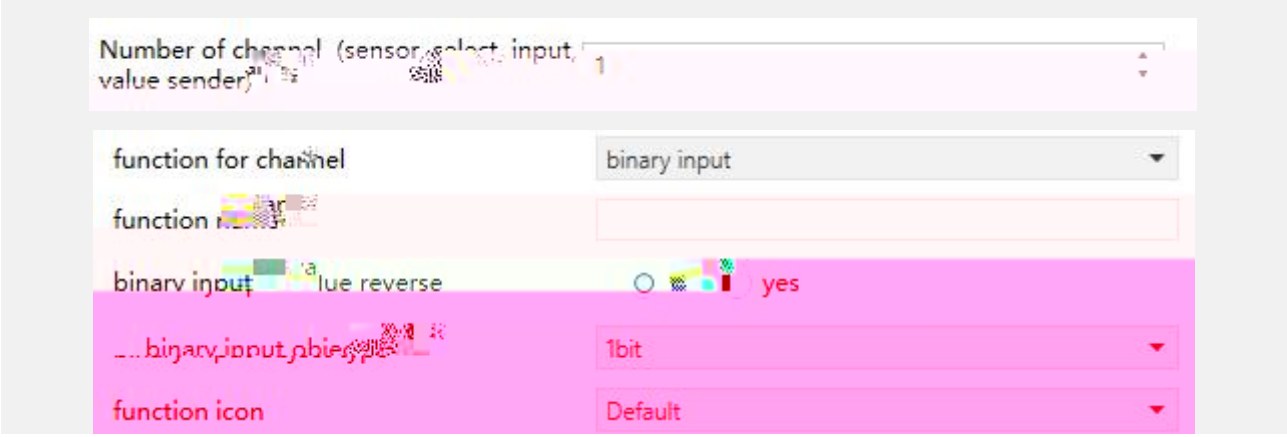
"Option x description"

□ □ □ □ □ □ □ □ 14 □ k

"Option x value"

□ □ □ □ KNX k □ □ **0...255**

5.3. □ □ □ “Sensor, Select...”



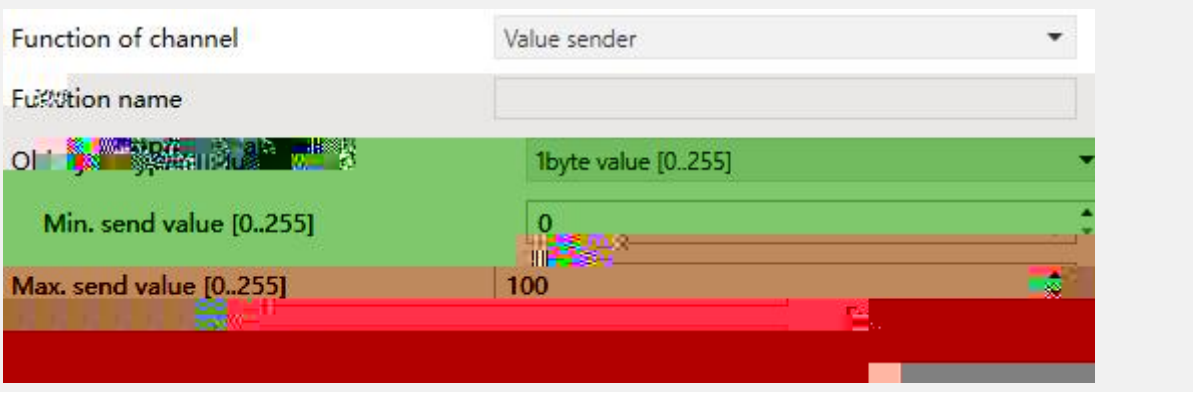
5.3 “Sensor, Select...” □ □ □

“Number of channel (sensor, select, input, value sender)”

□ □ □ □ □ k □ □ □ **0...100**

“Function for channel”

5.3.2.Value sender



5.3.2 “number” □ □ □

"Object type of value send"

□ □ □ □ □ k □ □ □

1bit

1byte value[0...255]

2bytes value[0...65535]

4bytes value[0...4294967295]

"Min.send value[...]"

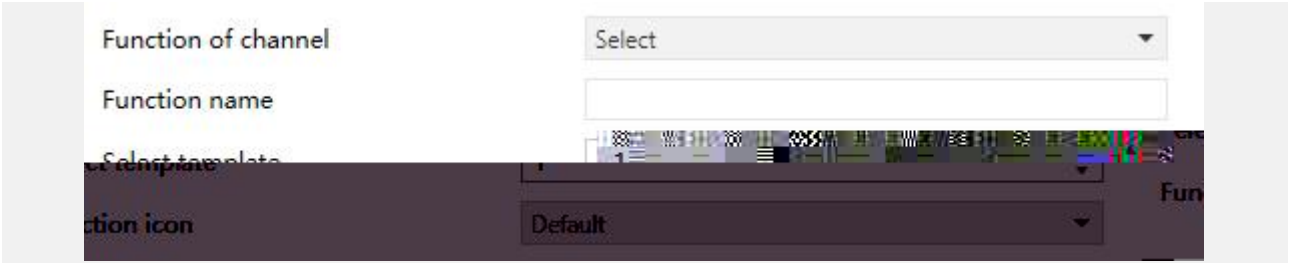
"Max.send value[...]"

□ □ 1bit □ □ □ □ □ / k □ □ □ □ □ □ k

□ □ □ □ □ □ k

□ □ k

5.3.4.Select



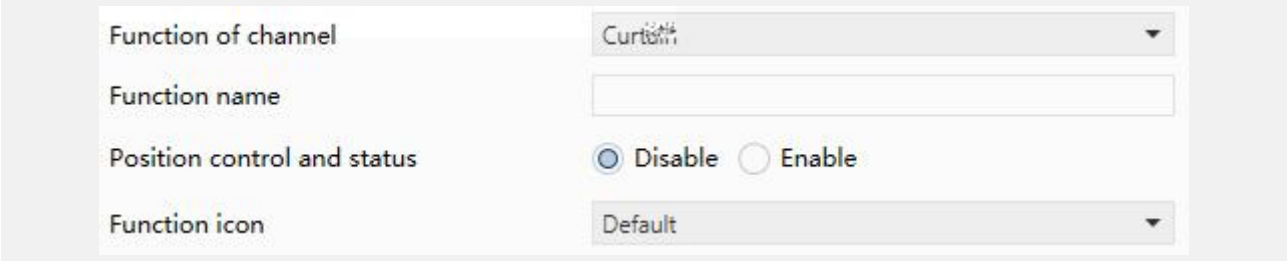
5.3.4 “select” □ □ □

```
= 0
```

5.4. □ □

KNX/EIB KNX-M

5.4.2.Curtain



5.4.2 “curtain” □□ □

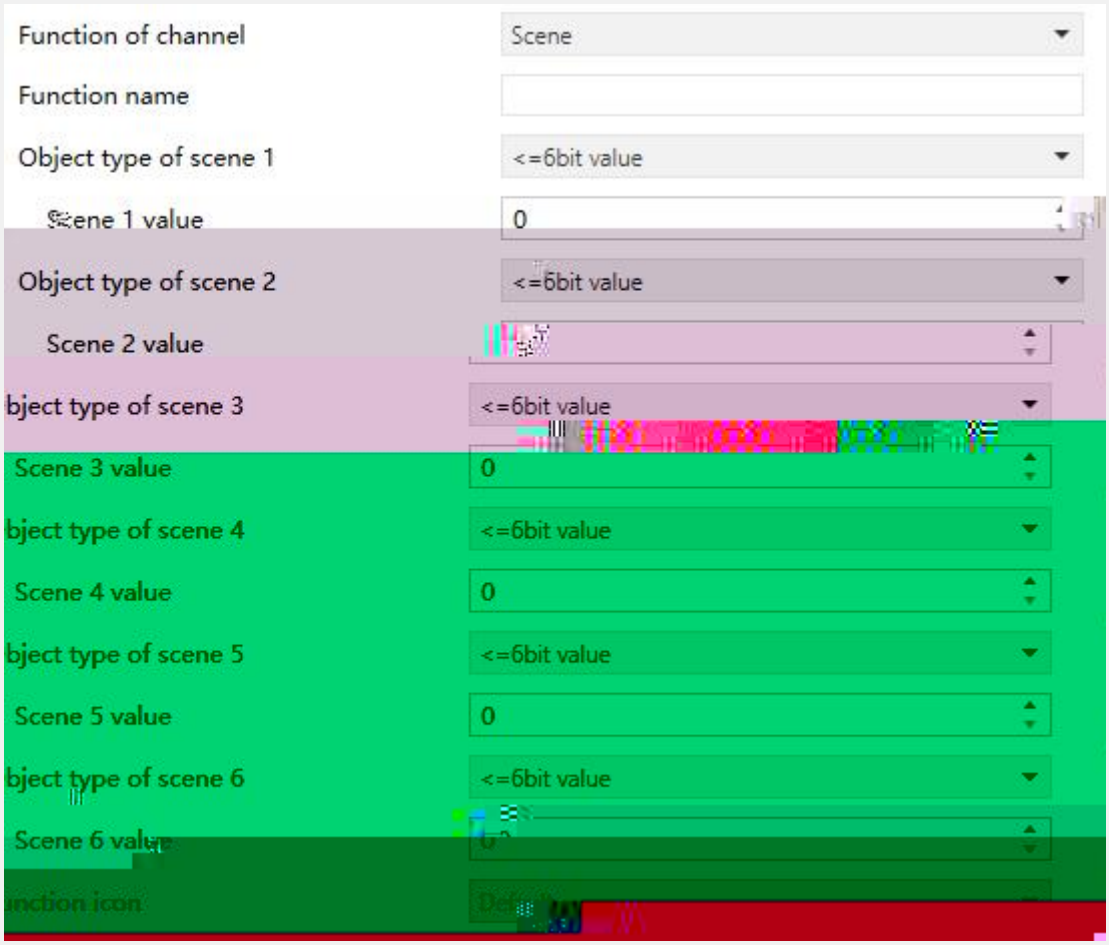
“Position control and status”

□□ □ 1byte □□ □ □ □ □ k □□□

Disable

Enable

5.4.3.Scene



5.4.3 “scene” □□ □

"Object type of scene x"

□ □ x □ □ □x=1~6 k □ □ □

no

<=6bit value

1byte value[0...255]

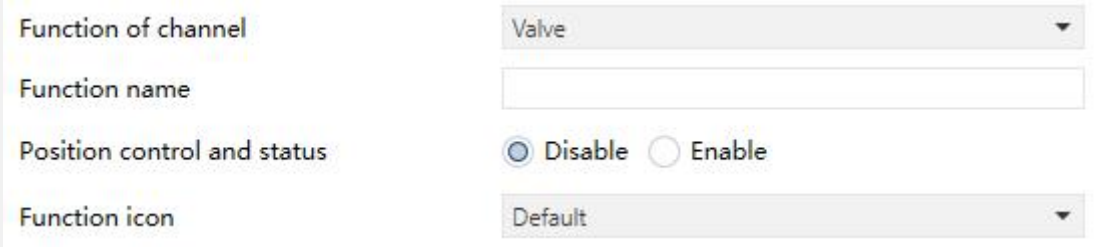
2byte value[0...65535]

2byte float value

"Scene x value"

□ □ x □ k □ □ □ □ □ □ k

5.4.4.Valve



5.4.4 "valve" □ □ □

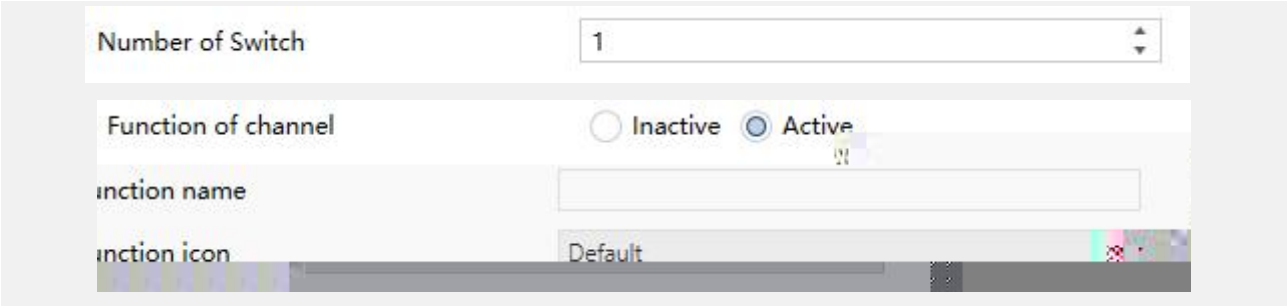
"Position control and status"

□ □ □ 1byte □ □ □ □ □ □ k □ □ □

Disable

Enable

5.5. □□ □“Switch...x□x=1~100□”



5.5 “Switch...x” □□ □

“Number of Switch”

□□ □ □□ □k □□□**0...100**

“Function for channel”

□□ □ □□ □□ □□ 100 □ k □□□

Inactive □

Active

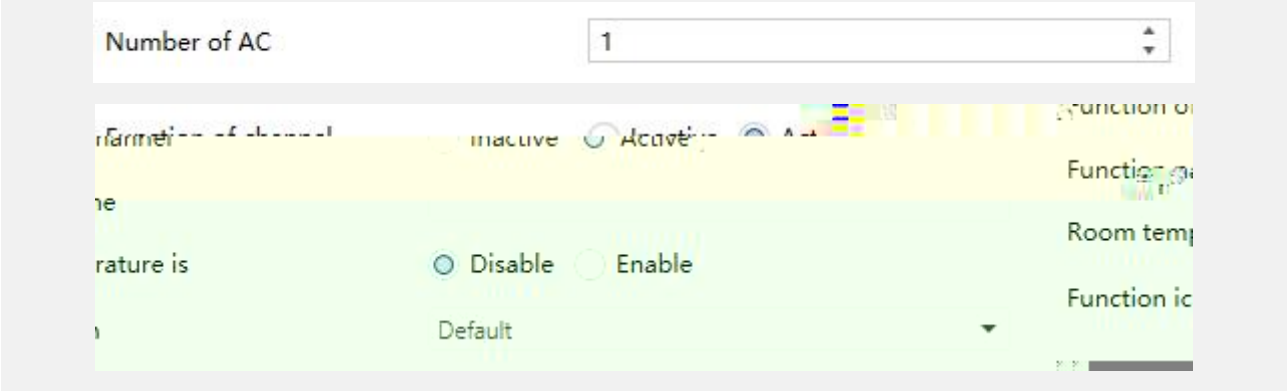
“Function name”

□□ □□ □ □k □ 14 □k

“Function icon”

□□□□ □ k□□ □ “Home Assistant” k

5.6. □□ □“AC...x□x=1~16□”



5.6 “AC...x” □□ □

“Number of AC”

□□ AC □□ □ᵏ □□□**0...16**

“Function for channel”

□□ □AC□□ □□ □□16 AC□ ᵏ □□□

Inactive □

Active

“Function name”

□□ AC□□ □ □ᵏ □ 14 □ᵏ

“Room temperature is”

□□ □ □ᵏ □□□

Disable

Enable

“Function icon”

□□□□ □ ᵏ□□ □ “Home Assistant” ᵏ

5.7. □ □ □(tunneling)

KNX-MQTT-HA □ 5 □ □ 5.7.1□ □ □ □ □ □ □ □ETS□□

□ □ □ □Visualization□ □ APP (Smartphone)□ □(Tablet)□ □ (Bus tool)

□ k



5.7.1

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □

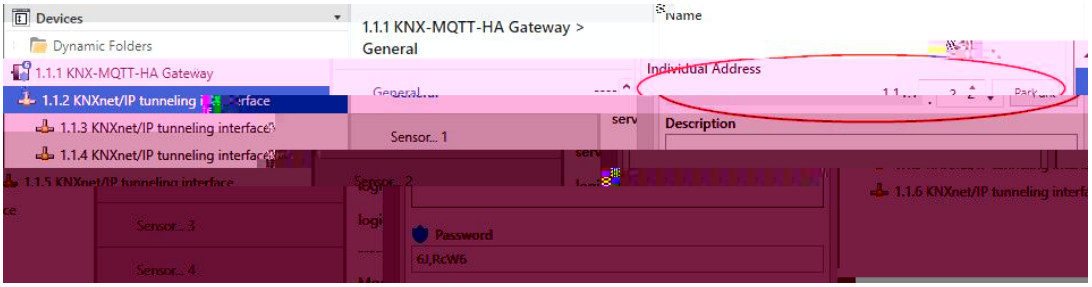
□ k ETS5 □ □ □ □ □ □ 5 □ □ □ □ □

□ □ □ □ k

□ □ □ □ □ □Park□ □ 5.7.2□ □ □ □ □ □ □

15.15.255□ □ □ □ □Park□ □ □ □ □ □ 15.15.255 k □15.15.255

□ □ □ □ □

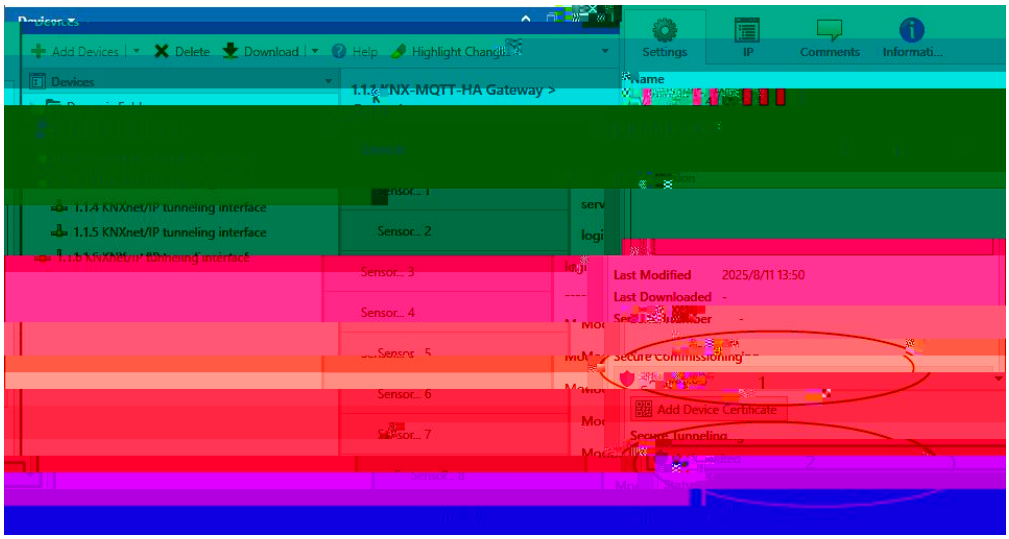


5.7.2

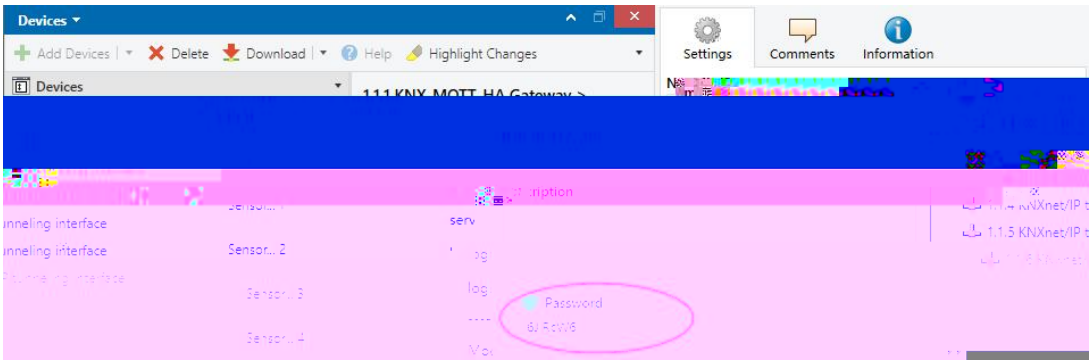
□□ □ □ KNX □ □ □□ □Secure Commissioning□□ □Secure

Tunneling□ □ 5.7.3 k □Secure Tunneling” □ □ □ □ ETS □ □ □

5.7.4□ □□ k



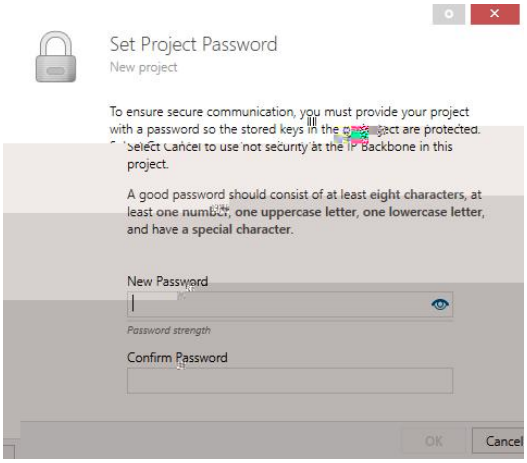
5.7.3



5.7.4

□ □ □ □Secure Commissioning□ □ □□ □

5.7.5□ □□□ □ □Secure Commissioning□ k


Set Project Password
New project
To ensure secure communication, you must provide your project with a password so the stored keys in the project are protected.
Select Cancel to use not security at the IP Backbone in this project.
A good password should consist of at least eight characters, at least one number, one uppercase letter, one lowercase letter, and have a special character.
New Password
Password strength
Confirm Password
OK
Cancel

5.7.5

5.8.KNX

KNX-MQTT-HA □ □ KNX KNX □ k □ □ □

□ □ □ □ □(Tunneling)□ k

□ □ ETS □ □ □ □ □ □ □ □ □ □



❖ KNX □ □ □ □ □ □ □ □ □ □ □ k

□ □ □ KNX □ □□

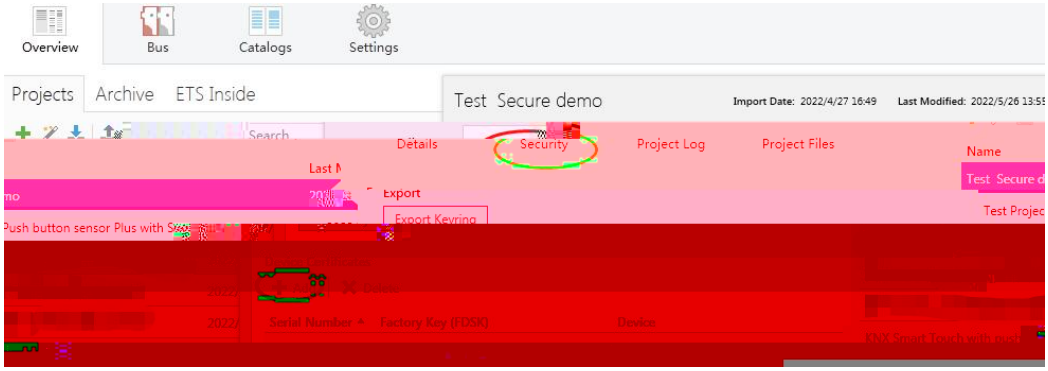
□ □ □ □ k

❖□ KNX □ □ □ □ □ □ □ □ k □ □FDSK ₹T □ □ □ □ □ □

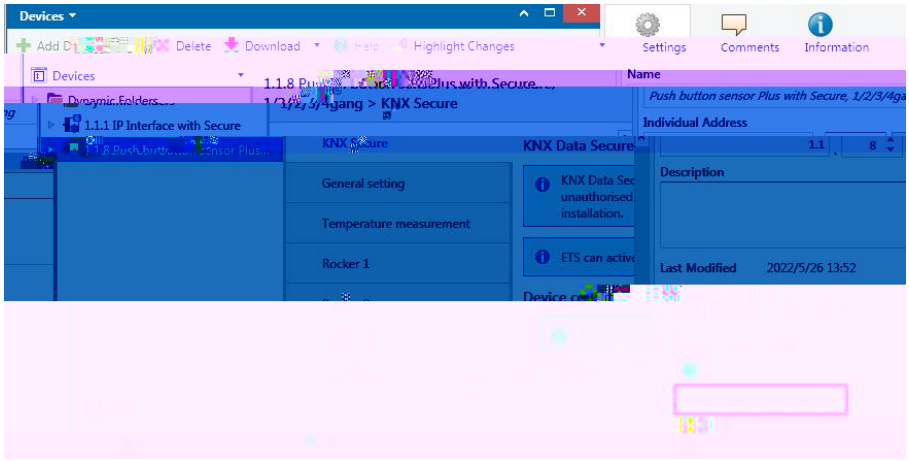
□ □ □ □ □ □ □ □ ETS□

✧□ □ □ □ETS □ □ □ □

□ □ □ □ □ □“Add Device Certificate”□ 5.8.3 ᵏ



5.8.2 Add Device Certificate



5.8.3 Add Device Certificate

✧□ □ □ □ □ FDSK ᵏ

FDSK□ □ □ KNX □ ᵏ

FDSK □ □ □ FDSK □ETS □ □ □ 5.8.4 ᵏ

□ □ □ □ □ □ □ □ □ □ ETS □ □ □ □ □

FDSK ᵏ



5.8.4

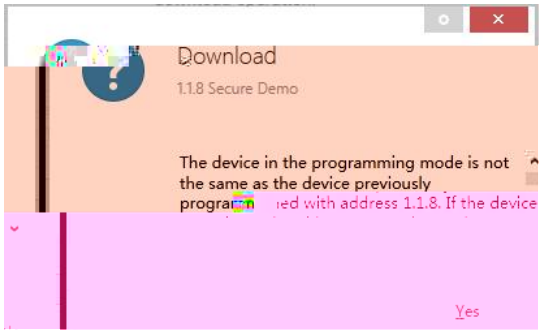
□

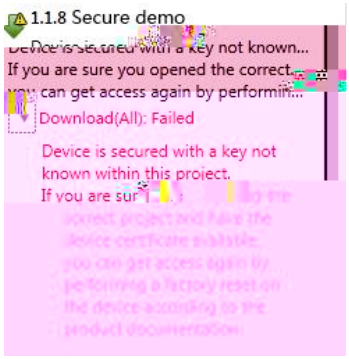
□ □ □ □ □ □ □ k □ □ □

□ 5.8.5 □ “Yes”□ “Add Device Certificate” □ □□ □ FDSK□ □

□ □

□ □ □ 5.8.5 □ □ k





5.8.5

□ □ □□ □ □ □ □ □ □□□□

□ □ □ □ □ FDSK k

□ □ □ □“Add Device Certificate” □ □ □ □ □ □ □ k

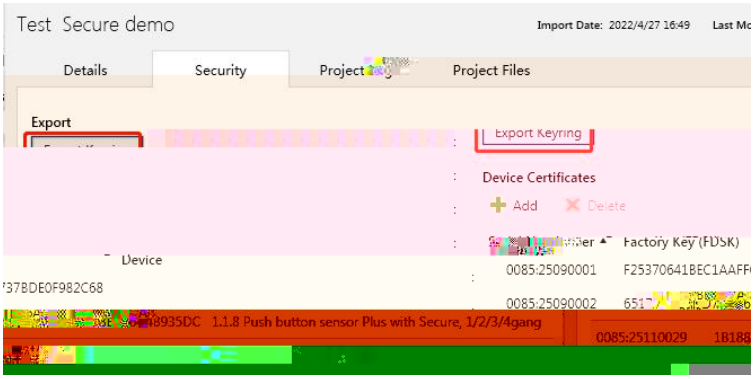


5.8.6

ETS □ □ □

□ □ □ □ □ □ □ □ □ □ □ □ □ 5.8.7□

□ .knxkeys k



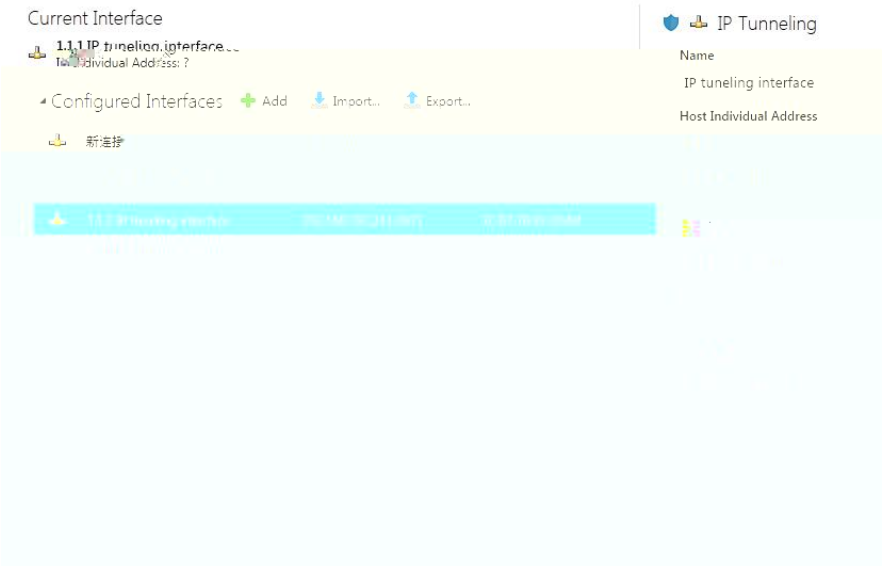
5.8.7

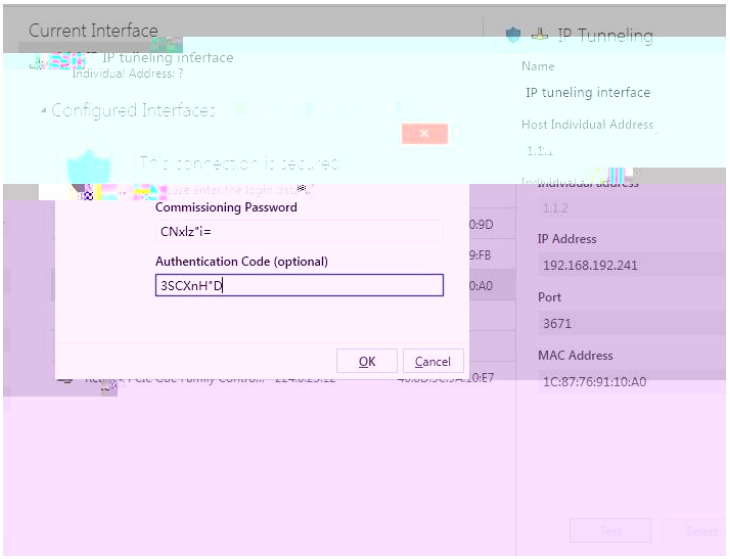
ETS □ IP □ □ □

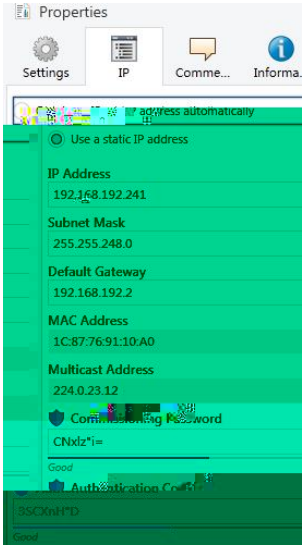
□ IP □ □ □ □ □ 1.1.2□ □ Test □ □ □ □ □

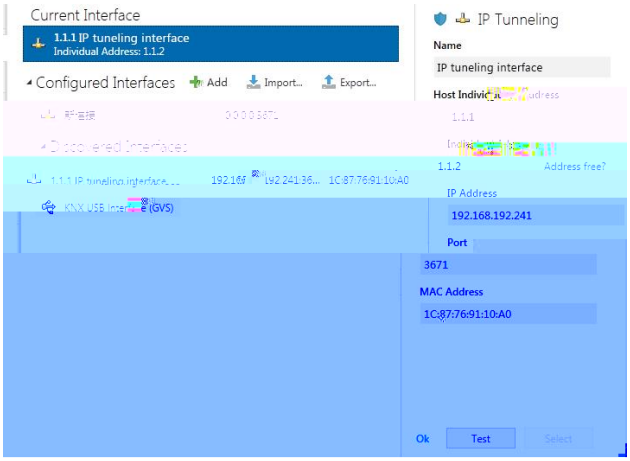
□ □ IP □ □ □ □ □ □ OK □Test □ □ Ok

□ Select □ k □ 5.8.8 k







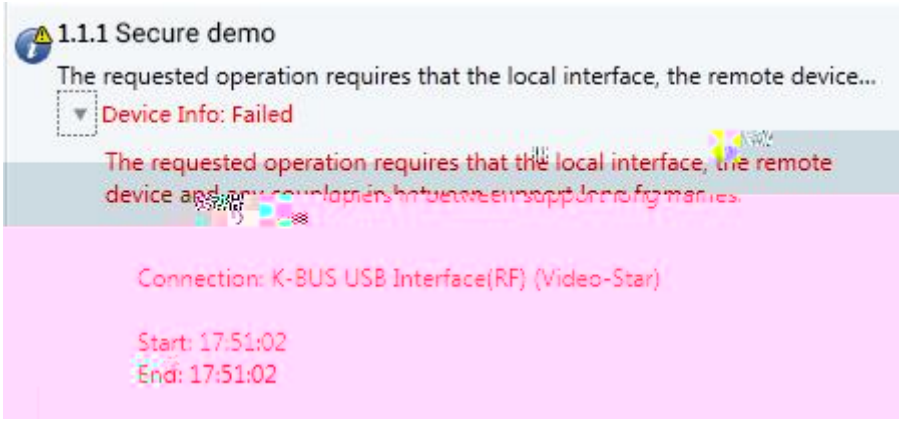


5.8.8 IP □ □ □

5.8.8 □ □Secure Tunneling□ □ □ □ □ □ □ □ □ □ □

□Secure Tunneling□ □ □ ETS □ □ □ □ k

□ □ KNX-MQTT-HA □ □ □ □ □ □ □ □ □ □ □ k


1.1.1 Secure demo
The requested operation requires that the local interface, the remote device...
Device Info: Failed
The requested operation requires that the local interface, the remote
device and
Connection: K-BUS USB Interface(RF) (Video-Star)
Start: 17:51:02
End: 17:51:02

5.8.9

5.9. □ □

□ □ □ k □ □ □ □

□ KNX □ □ □ ETS □ □ □ □ □

□ □ □ □ ETS □ k

□ □ □ □ ETS □ □ □ □ □ k

□ :

' IP

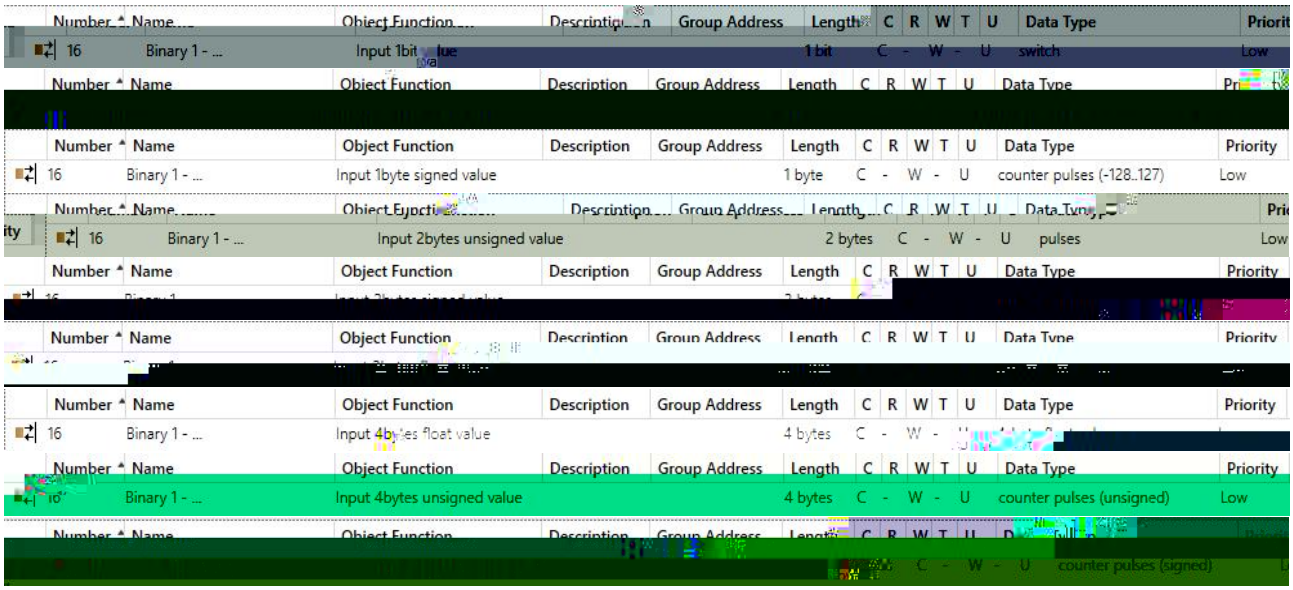
□ □ □□ □□

□□ □ □ □ □ □□□□ □ □□ □ □□□ □□□ k

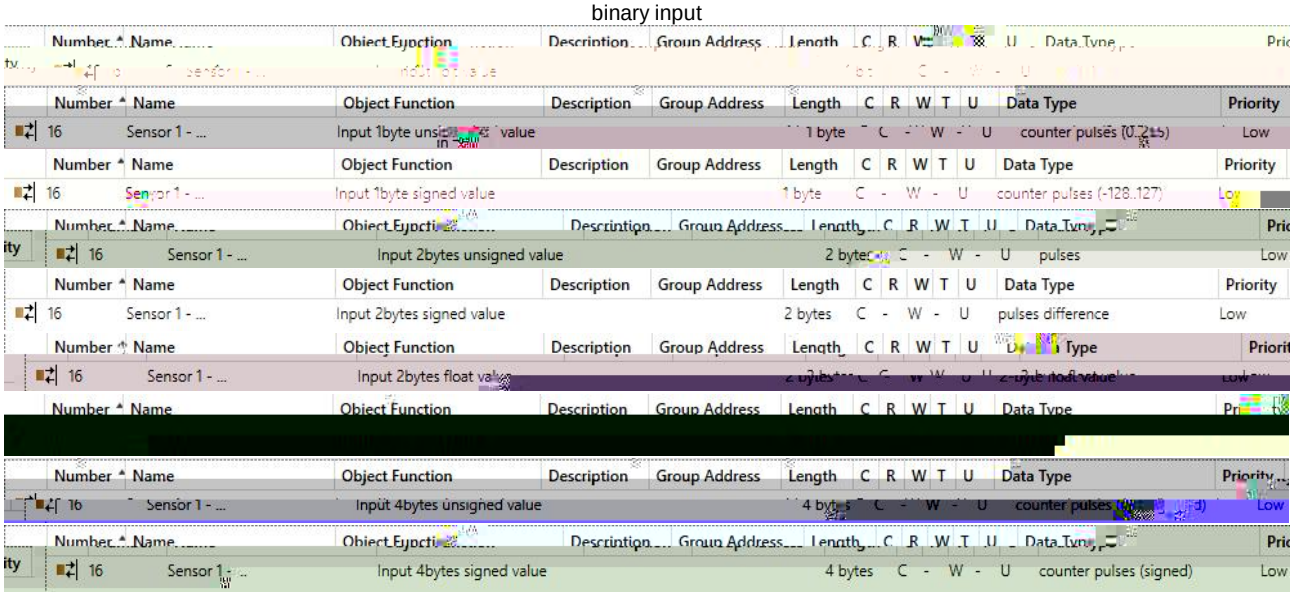
□ □ “C” □□ □ □□ □ □□“W” □□ □ □□□ □ □“R”

□□ □ □□□ □□ □“T” □□ □ □ □□“U” □□ □ □□ k

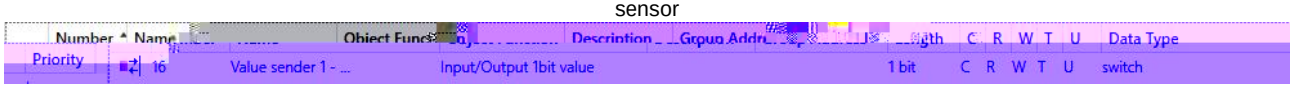
6.1.“Sensor...x□x=1~100□”□□ □

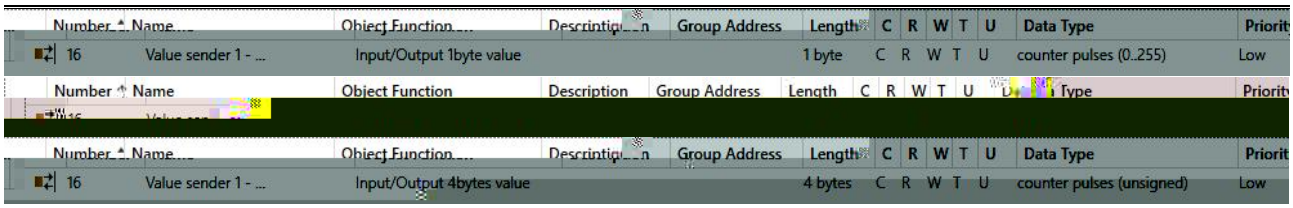


binary input



sensor





Value sender



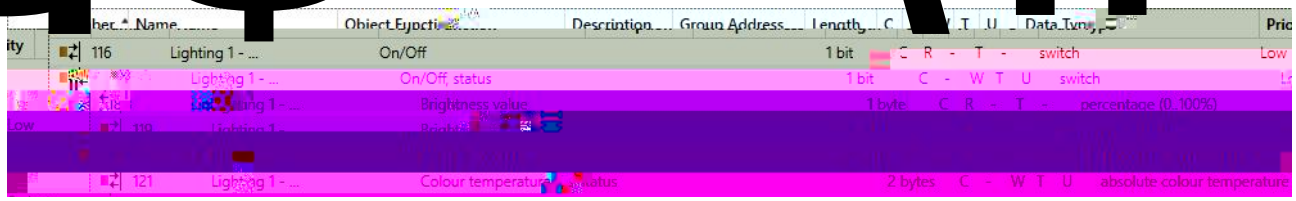
Select

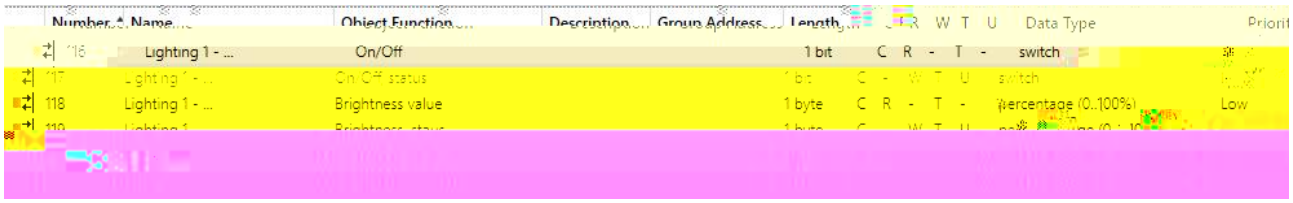
6.1 “Sensor...x”□ □ □

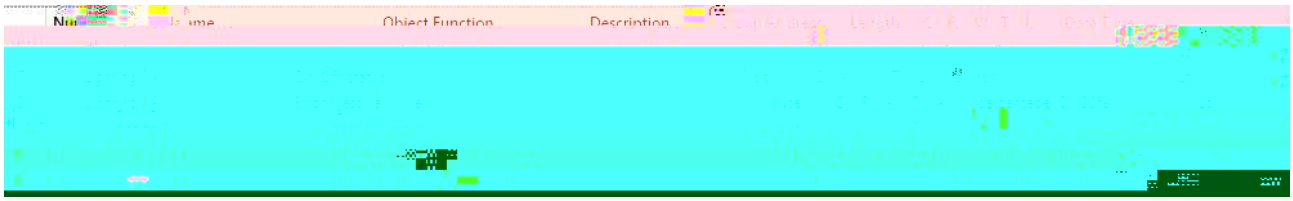
□	□ □	□	□		DPT
16	**Input ...**	**Binary or sensor1 - {{}}**	**1bit** **1byte** **1byte** **2byte** **2byte** **2byte** **4byte** **4byte** **4byte**	**C,W,U**	**1.001 switch** **5.010 counter pulses (0..255)** **6.010 counter pulses (-128..127)** **7.001 pulses** **8.001 pulses difference** **9.*2-byte float value** **14.*4-byte float value** **12.001 counter pulses(unsigned)** **13.001 counter pulses(signed)**
□ □ □ □ □ □ □ k □ □ □Function name□ □ □ □ □ □ □ □Binary or sensor1 - □□ k					
16	**Input/Out ..**	**Value sender or select 1 - {{}}**	**1bit** **1byte** **2byte** **4byte**	**C,W,T,U, R**	**1.001 switch** **5.010 counter pulses (0..255)** **7.001 pulses** **12.001 counter pulses(unsigned)**
□ □ □ □ □ □ □ k					

□ 6.1 “Sensor...x”□ □ □

6.2 Lighting...x (ex=1...000)







					DPT
116	On/Off	Lighting1 - {{}} Fan1 - {{}} Valve1 - {{}}	1bit	C,R,T	1.001 switch
117	On/Off,status	Lighting1 - {{}} Fan 1 - {{}} Valve1 - {{}}	1bit	C,W,T,U	1.001 switch

0——

1——

Obj.116

Obj.117

		Function name			Lighting1 -
118	Brightness value	Lighting1 - {{}}	1byte	C,R,T	5.001 percentage(0..100%)
119	Brightness,status	Lighting1 - {{}}	1byte	C,W,T,U	5.001 percentage(0..100%)

□ □ □ □ RGB □ k

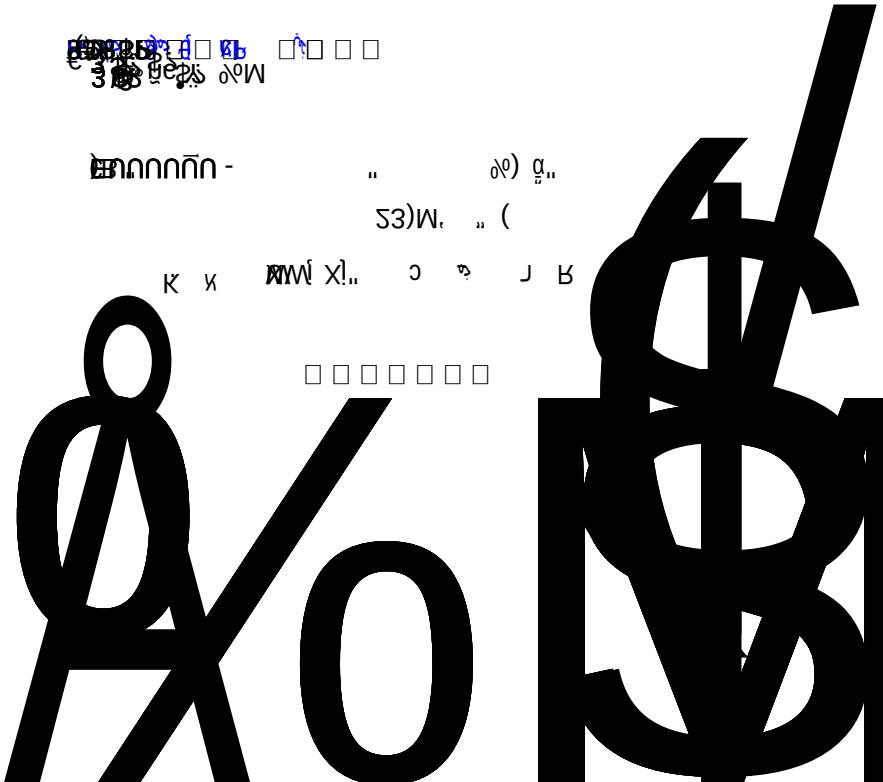
Obj.120□ □ RGB □ □ k

Obj.121□ □ RGB □ k

3 □ RGB □ □ □ □ □ U8 U8 U8□ □ □

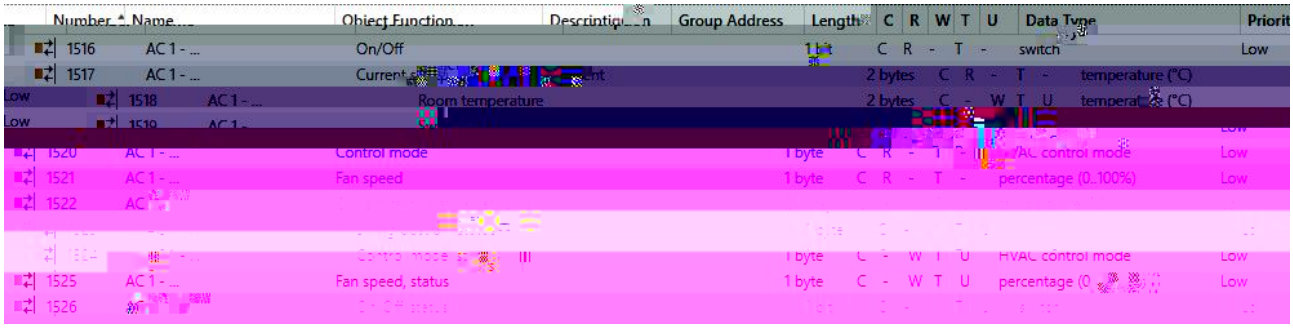
3_{MSB}	2	1_{LSB}
R	G	B
UUUUUUUU	UUUUUUUU	UUUUUUUU

R: □ □ □ □G: □ □ □ □B: □ □ □ k



KNX/

6.4.“AC...x□x=1~16□”□ □ □



6.4 “AC...x”□ □ □

□	□ □	□	□		DPT
1516	**On/Off**	**AC1 - {{}}**	**1bit**	**C,R,T**	**1.001 switch**
1526	**On/Off,status**	**AC1 - {{}}**	**1bit**	**C,W,T,U**	**1.001 switch**
□ □ □ □ □ □ k □ 0—— 1—— Obj.1516□ □ / □ / k Obj.1526□ □ □ / k □ □ □Function name□ □ □ □ □ □ □ □ □AC1 - □ □ k					
1517	**Current setpoint temperature**	**AC1 - {{}}**	**2bytes**	**C,R,T**	**9.001 temperature**
1522	**Current setpoint temperature, status**	**AC1 - {{}}**	**2bytes**	**C,W,T,U**	**9.001 temperature**
□ □ □ □ □ □ k □ □ □ k Obj.1517□ □ □ □ □ k Obj.1522□ □ □ □ □ □ k					
1518	**Room temperature**	**AC1 - {{}}**	**2bytes**	**C,W,T,U**	**9.001 temperature**
□ □ □ □ □ □ □ □ □ □ □ □ k					
1519	**Swing position**	**AC1 - {{}}**	**1byte**	**C,R,T**	**5.001 percentage**

KNX/EIB KNX-MQTT-HA

□ □ □□

KNX-MQTT-HA □ □□ □□ □

	15.15.254
IP □□□IP tunneling□□	15.15.241 15.15.242 15.15.243 15.15.244 15.15.245
IP □□	
IP	192.168.2.200
□	255.255.255.0
□□□	192.168.2.1

□□□□ IP □ □□□□□ □□ k

□□□ □□ □

□ □ □□ 4 □□□ 4 □ □ 3 □□LAN ¦ KNX □ □ □

LAN ¦ KNX □□ □ □ □□ □□ k

FDSK□ □□□□ □□ □□ □ 5.8 □ KNX k