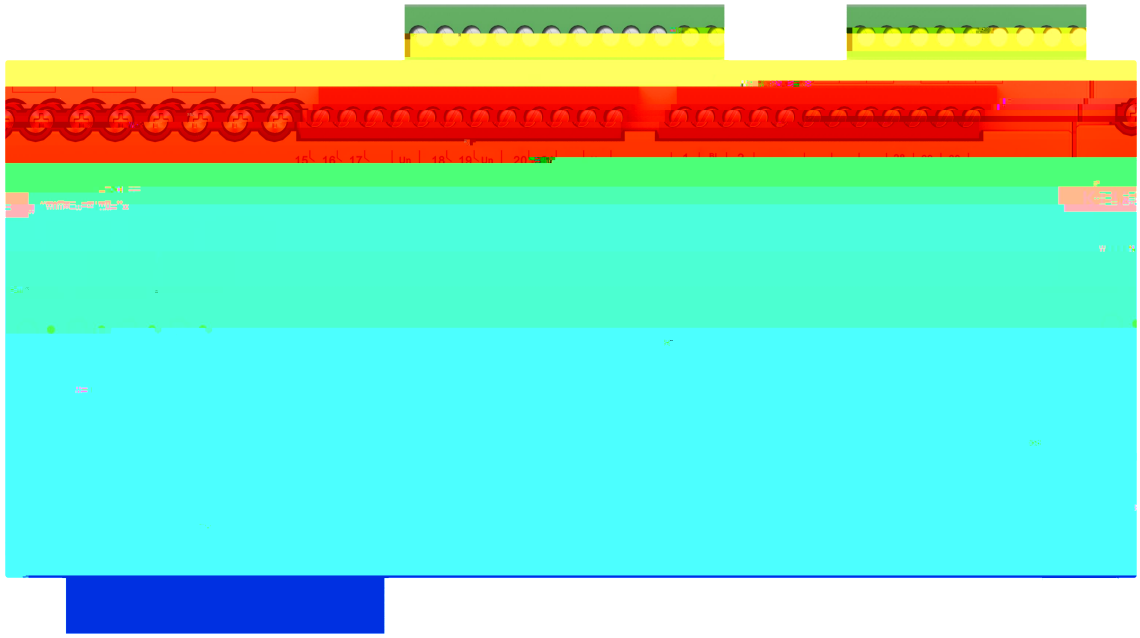
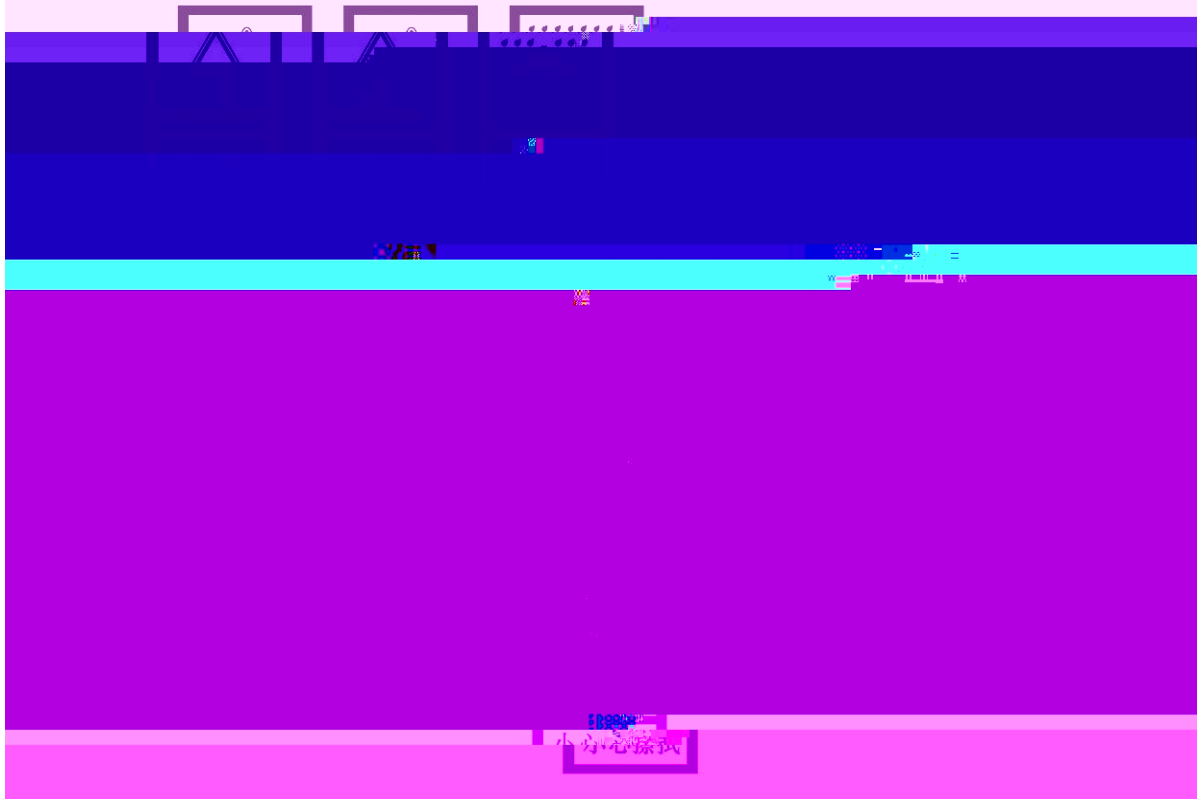


注意事项

1、请远离强磁场、高温、潮湿等环境；



4、请勿自行拆卸本设备。

!

“ ”

“ ”

“ ”

“ ”

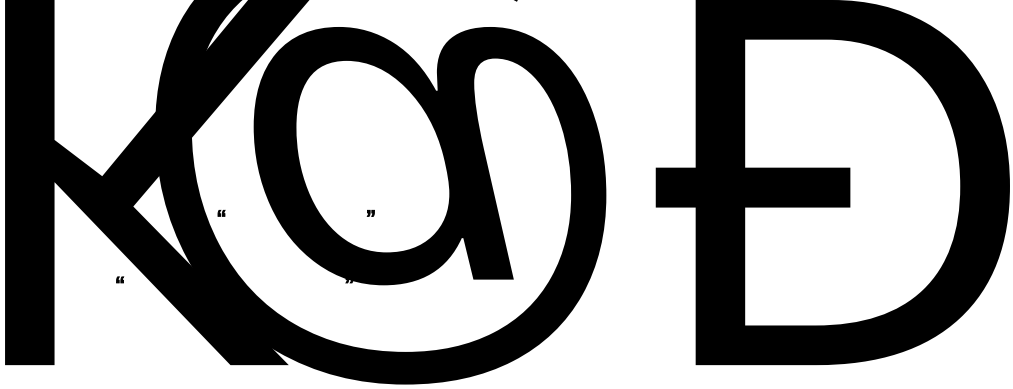
“ ”

“ ”

“ ”

“ ”

“ ”



“ ”

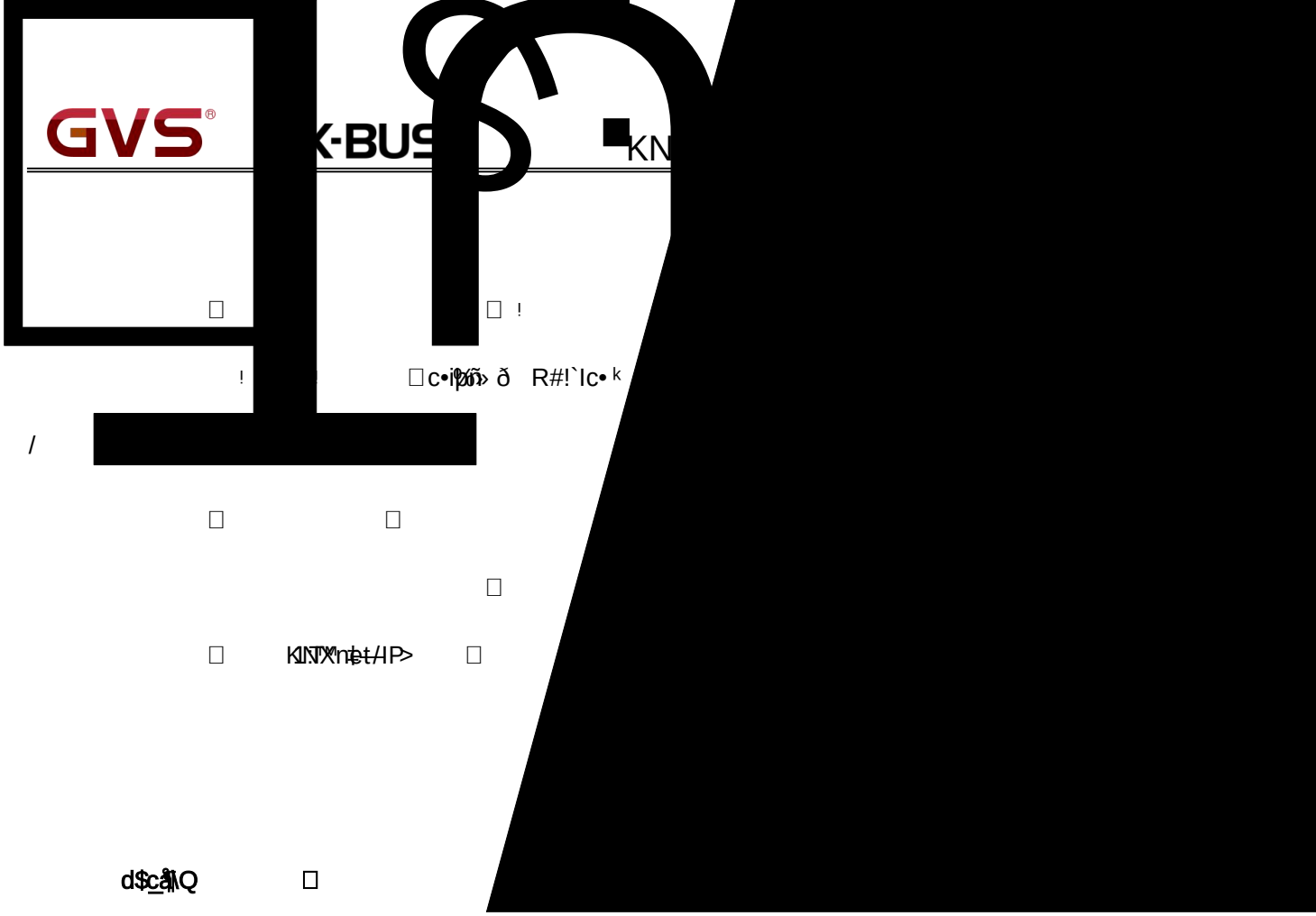
“ ”

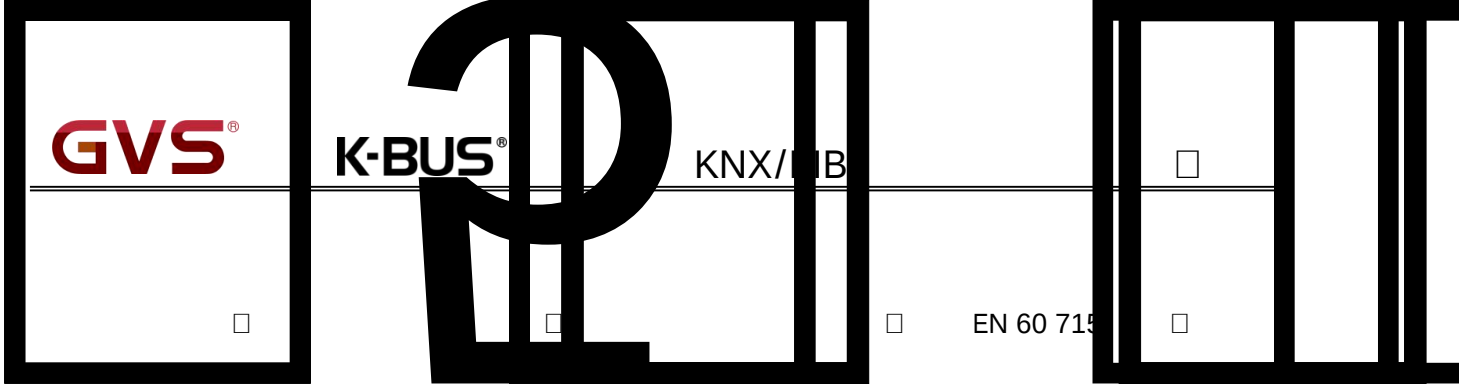
“ ”

“ ”

“ ”

“ ”


GVS
K-BUS
KN



KNX/EIB

EN 60 715

35 EIB

24~30V k

/

! ! !

k

13

10 LED LED

LED LED LED

12V

25 4

Ô230 V AC 16A 21 Ô230 V AC 6A

8 1byte

2 230 V AC 6A

“ Blinds ” “ Shutter ”

5 0-10V

q

PT1000

q

KNXnet/IP 5

KNXnet IP Router 8

4 8

K

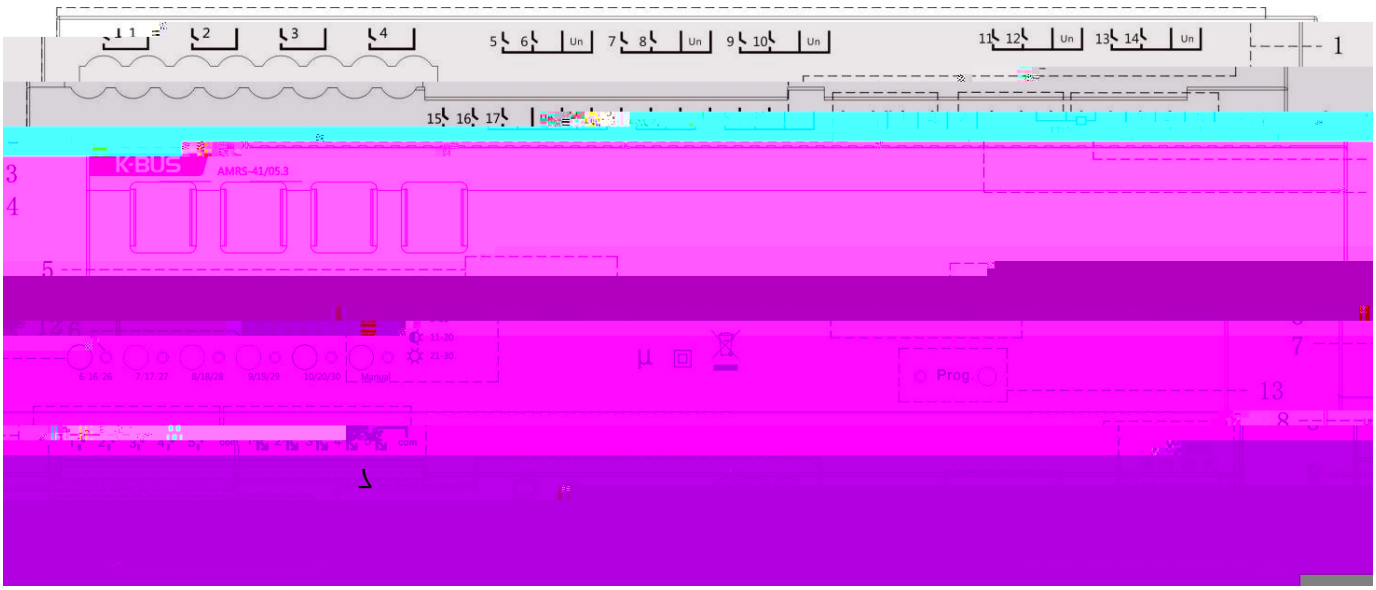
0.7KG

5 □ □

12V DC

0.4mA

!



15 16 17

Õ Ä 18 19

3 0-10V

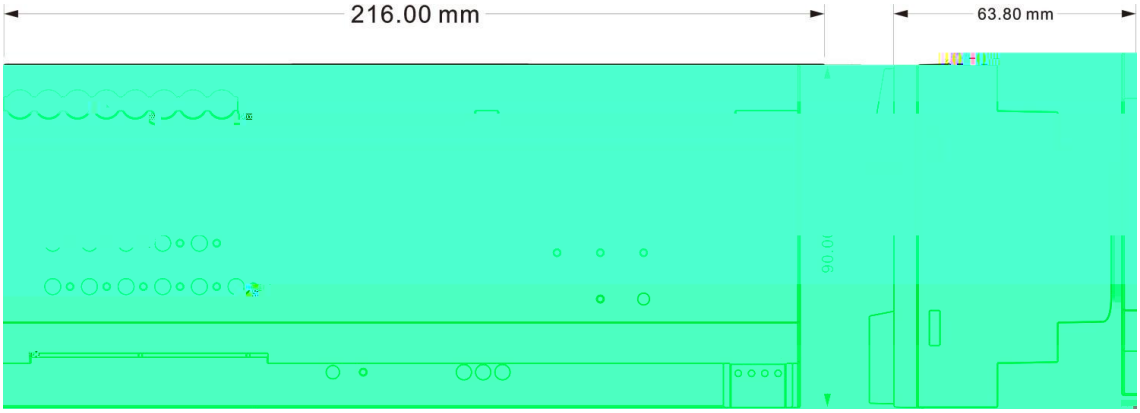
PT1000

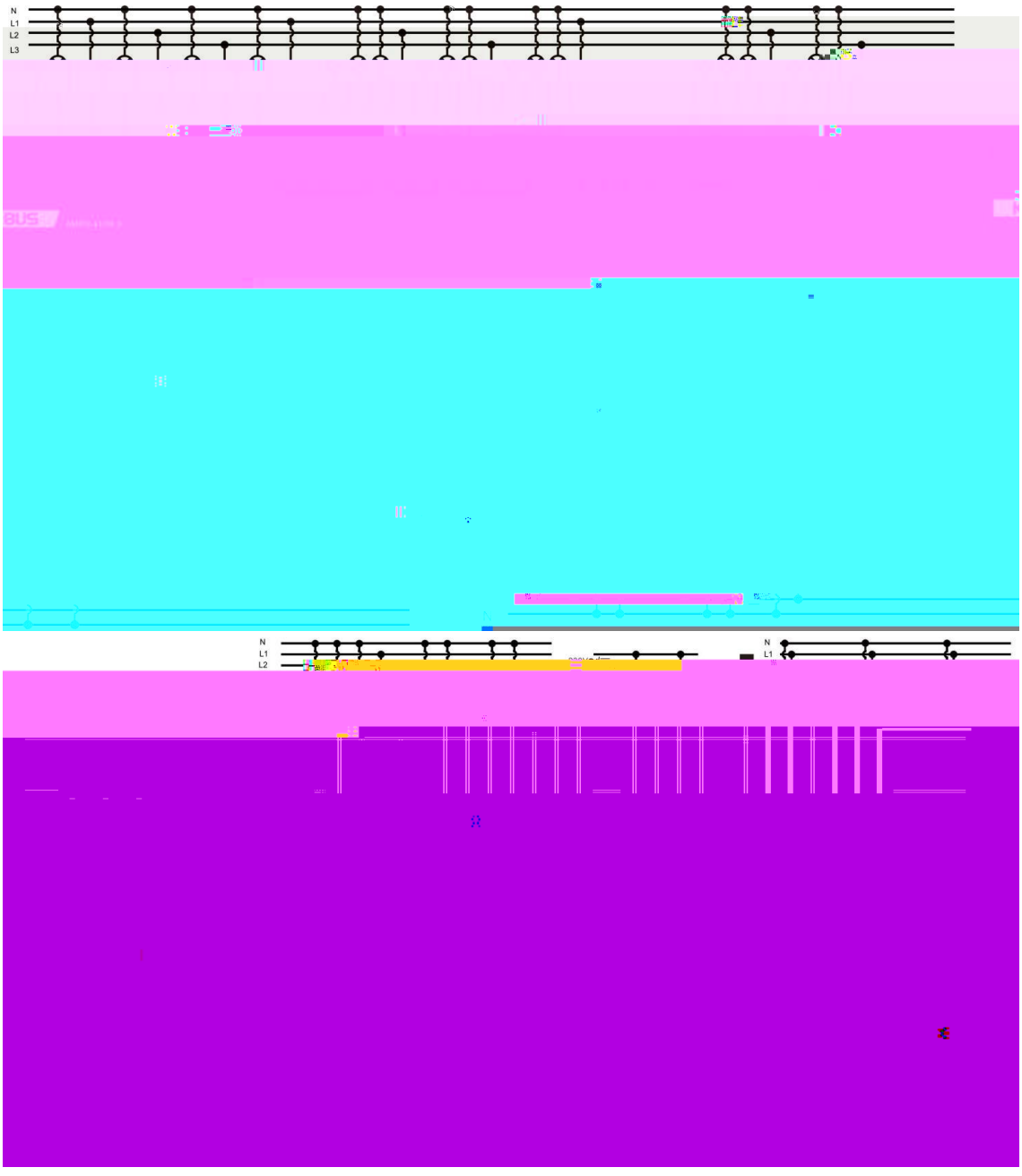
f

8 LED

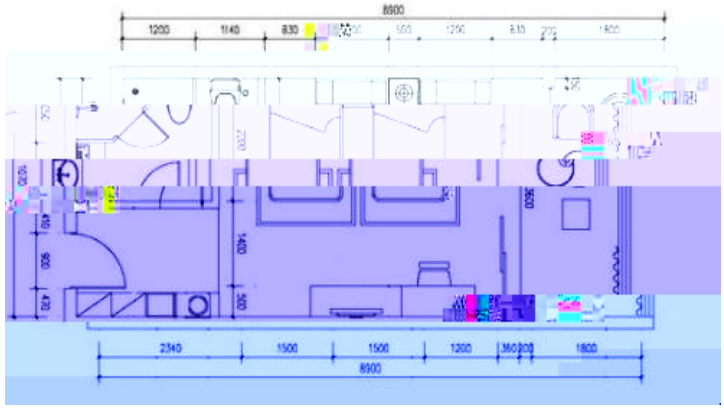
1-10

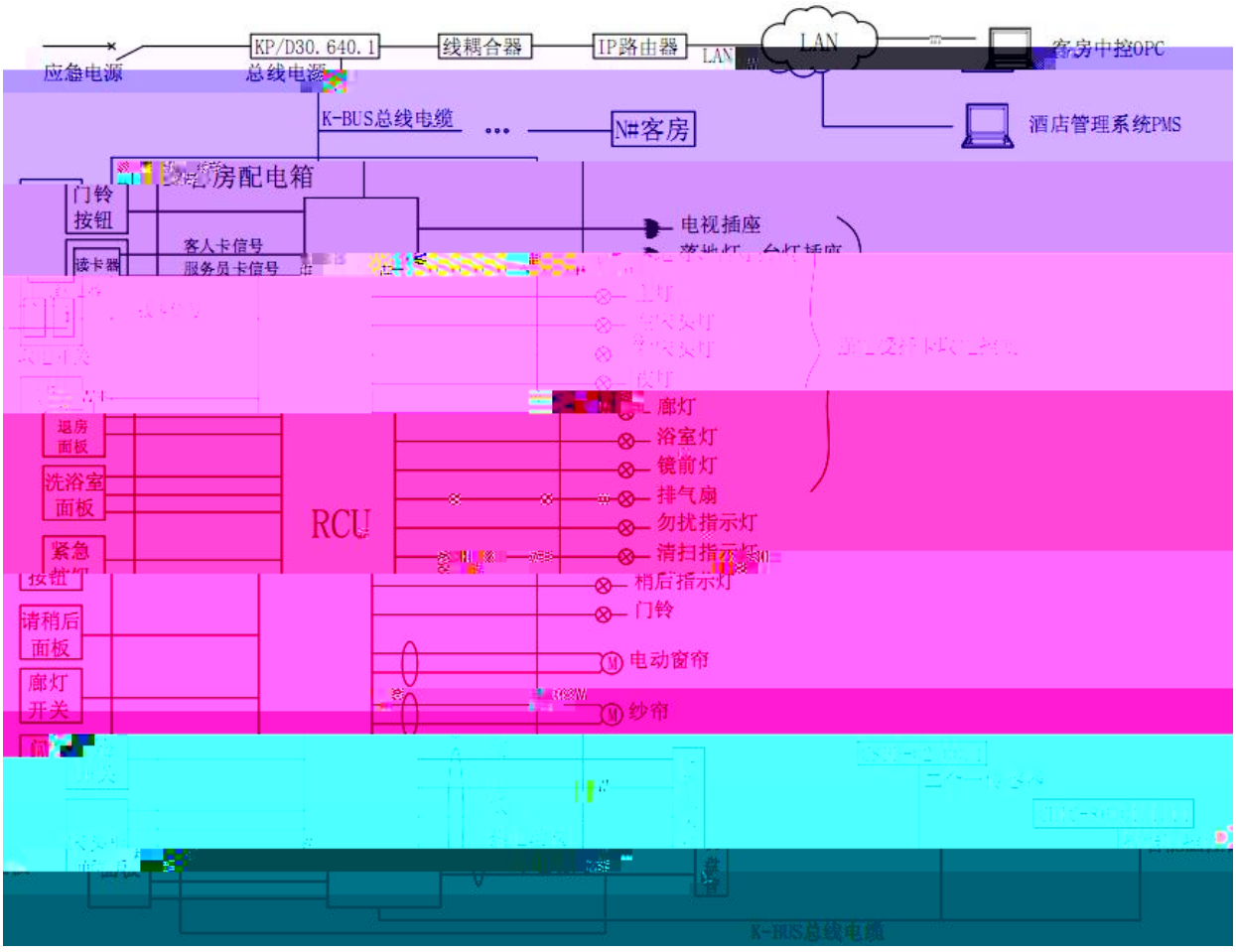
1120 0


216.00 mm
63.80 mm
90.06


N
L1
L2
L3
N
L1
L2
N
L1

□


8900
1200
1140
830
2340
1500
1500
1300
360
200
1800
8900


应急电源
KP/D30.640.1
总线电源
线耦合器
IP路由器
LAN
LAN
客房中控OPC
酒店管理系统PMS
K-BUS总线电缆
N#客房
门铃
按钮
客人卡信号
服务员卡信号
电视插座
廊灯
浴室灯
镜前灯
排气扇
勿扰指示灯
清扫指示灯
稍后指示灯
门铃
电动窗帘
纱帘
退房
面板
洗浴室
面板
紧急
按钮
请稍后
面板
廊灯
开关
RCU
K-BUS总线电缆

□ □ □ □ □

1) □ ! ! ! ! ! k

2) ! k

3) □ k

4) □ □

□ ! □ k □

□ □ □ k

5) □ □ □ □

□ □ k □

! k

6) □ □ □ □

□ □ □ OPC

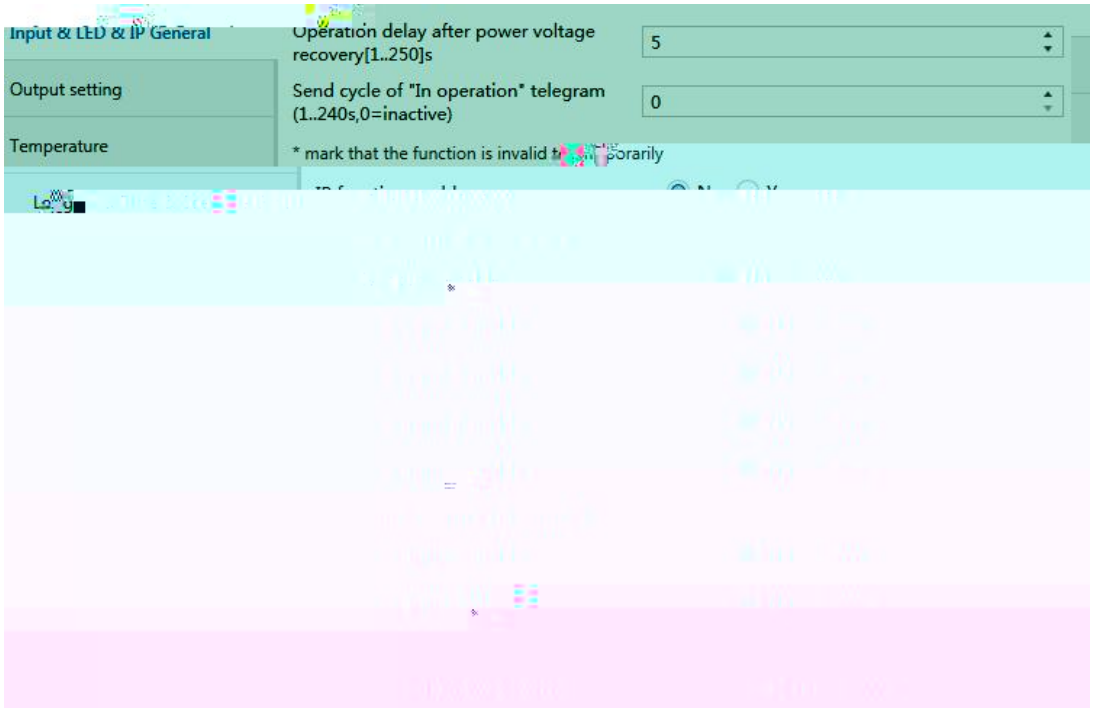
□ k

ETS □ □ □ k

□ k

“ ”

! LED IP k



“

" "

□ k

□ k

k □ 2s k

k

" " " "

, k

" 0 " □ " in operation " k

" 0 " □ " in operation " " 1 " k

□ 0 ..240s □0=

□ k

" "

IP □ □ IP □ IP □IP k

IP KNXnet/IP □ 5

k KnxNet IP Router □ 8 k

" "

X□X□1..5□ k

5 □ □ A k

“ ”

X□X□1..2□ k

□ □

□ k

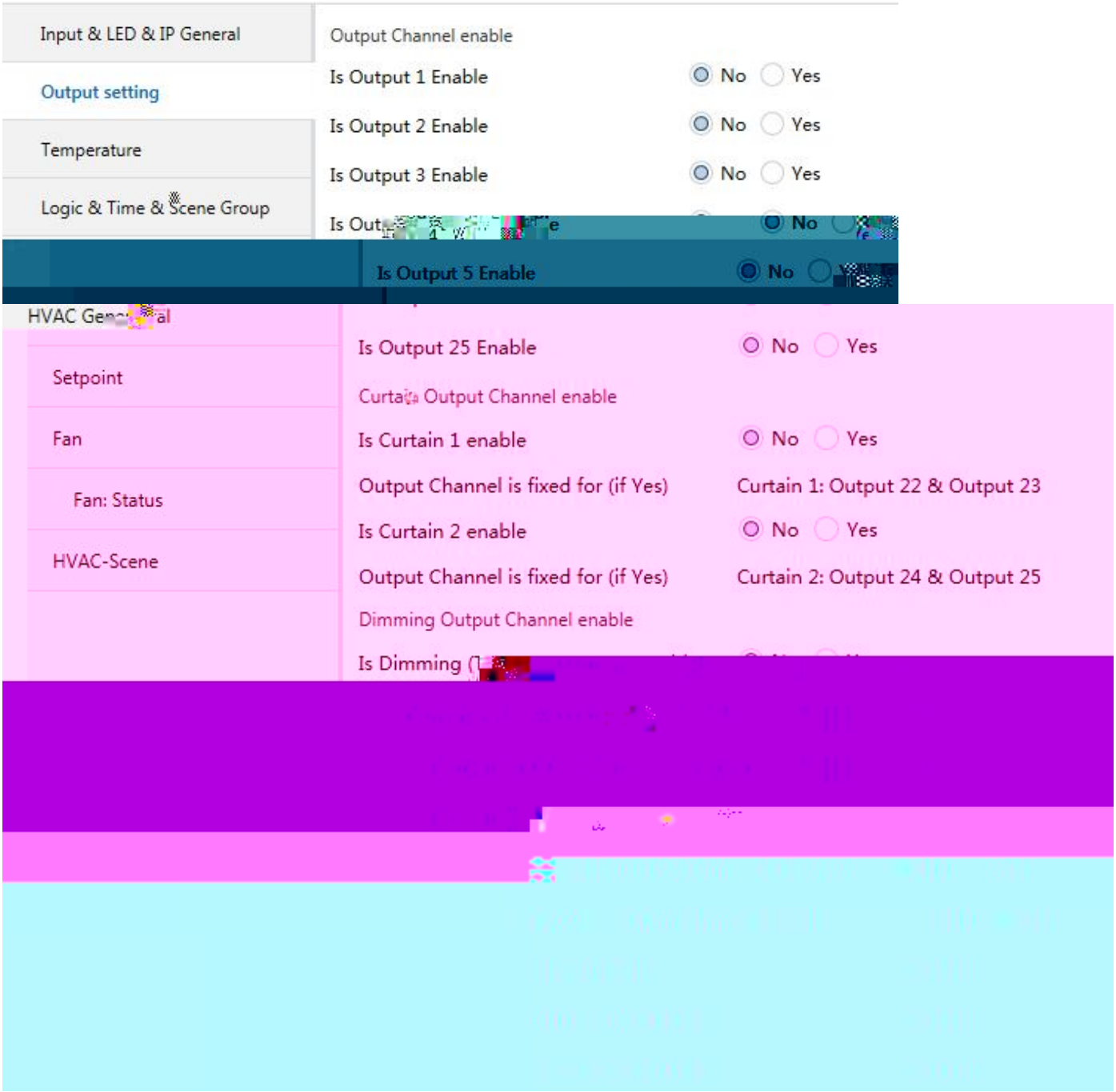
“ ”

LED k

LED □ 5 k

“ ”

k


Input & LED & IP General
Output setting
Temperature
Logic & Time & Scene Group
Output Channel enable
Is Output 1 Enable
No
Yes
Is Output 2 Enable
No
Yes
Is Output 3 Enable
No
Yes
No
Is Output 5 Enable
No
HVAC General
Setpoint
Fan
Fan: Status
HVAC-Scene
Is Output 25 Enable
No
Yes
Output Channel enable
Is Curtain 1 enable
No
Yes
Output Channel is fixed for (if Yes)
Curtain 1: Output 22 & Output 23
Is Curtain 2 enable
No
Yes
Output Channel is fixed for (if Yes)
Curtain 2: Output 24 & Output 25
Dimming Output Channel enable

“ ”

“ ”

□□□□□□□□□

“ ”

X□X□1..2□ k

1 22 23 □ 2 24 25 k

□ k

“ ”

X□X□26□27□ □ k

“ □ □ ”

0-10V X□X□28□29□30□ k

“ ”

HVAC k □ k

“ ”

□ □

“ ”

0-10V □ □ k □1..20

0-10V □ 28 □ k

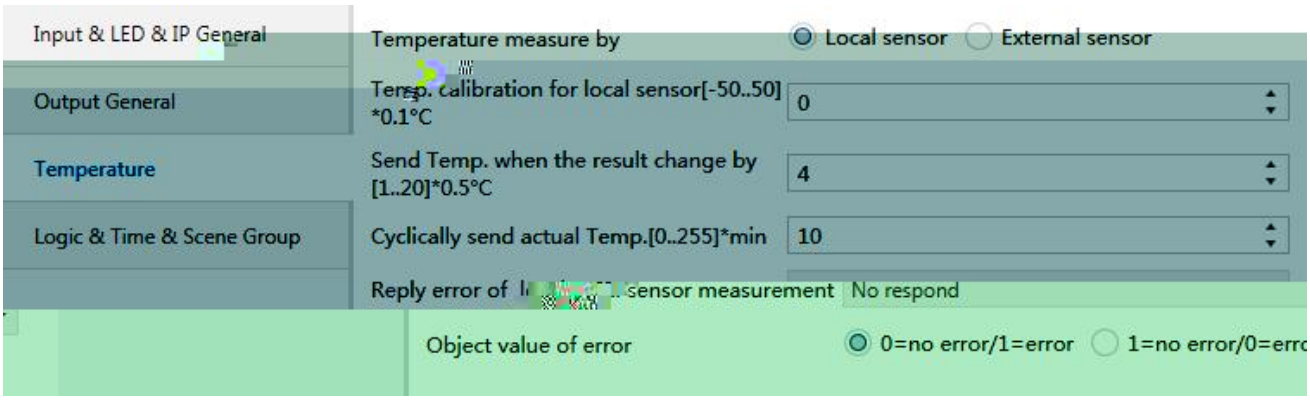
□ k

1 15 □

2 15 16

3 15 ! 16 17 k

“ Temperature ” 5.3 k



“ ”

“Actual temperature output ”

0 k

k

“Local sensor error output ”

k

“Local sensor error output ”

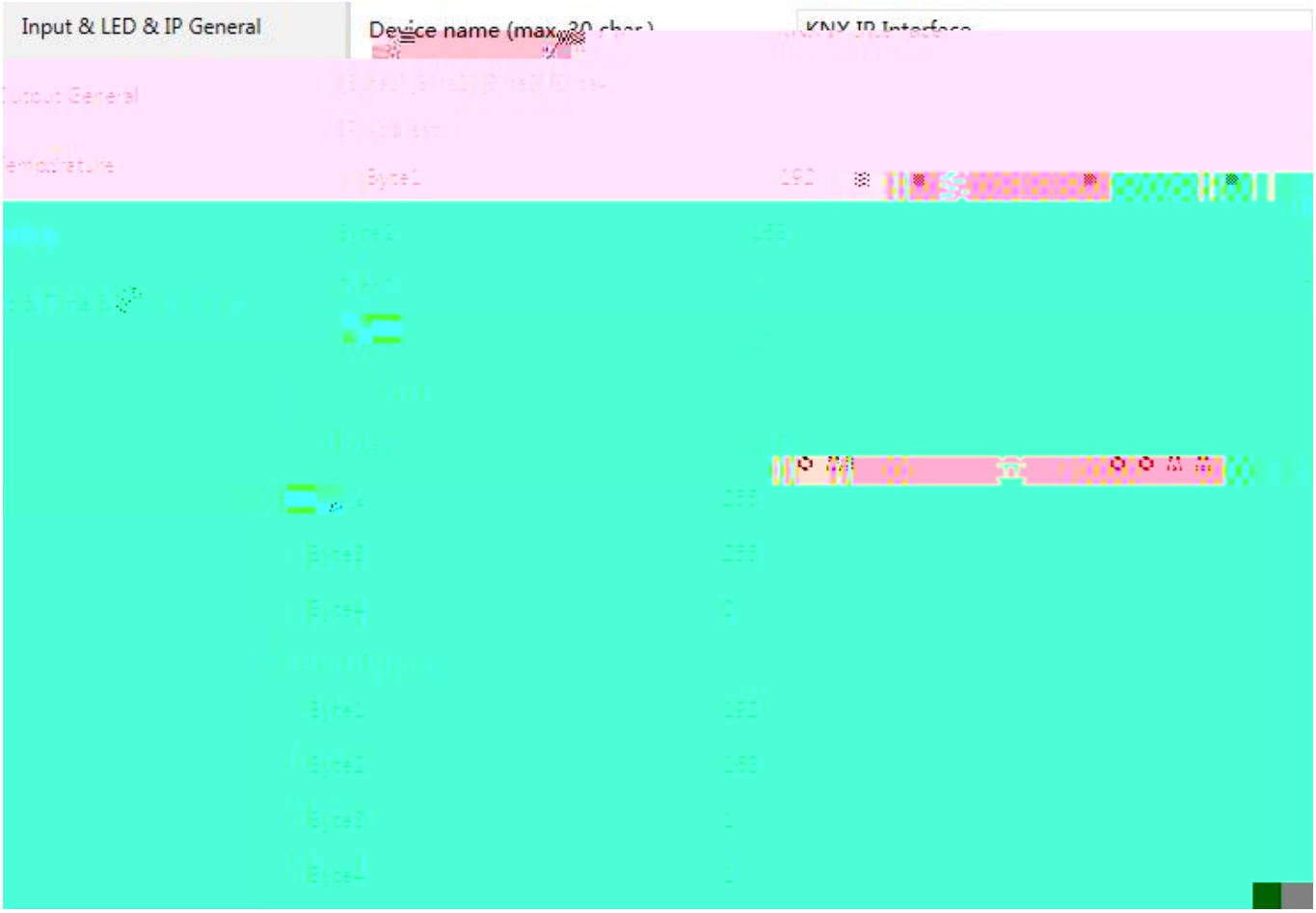
k

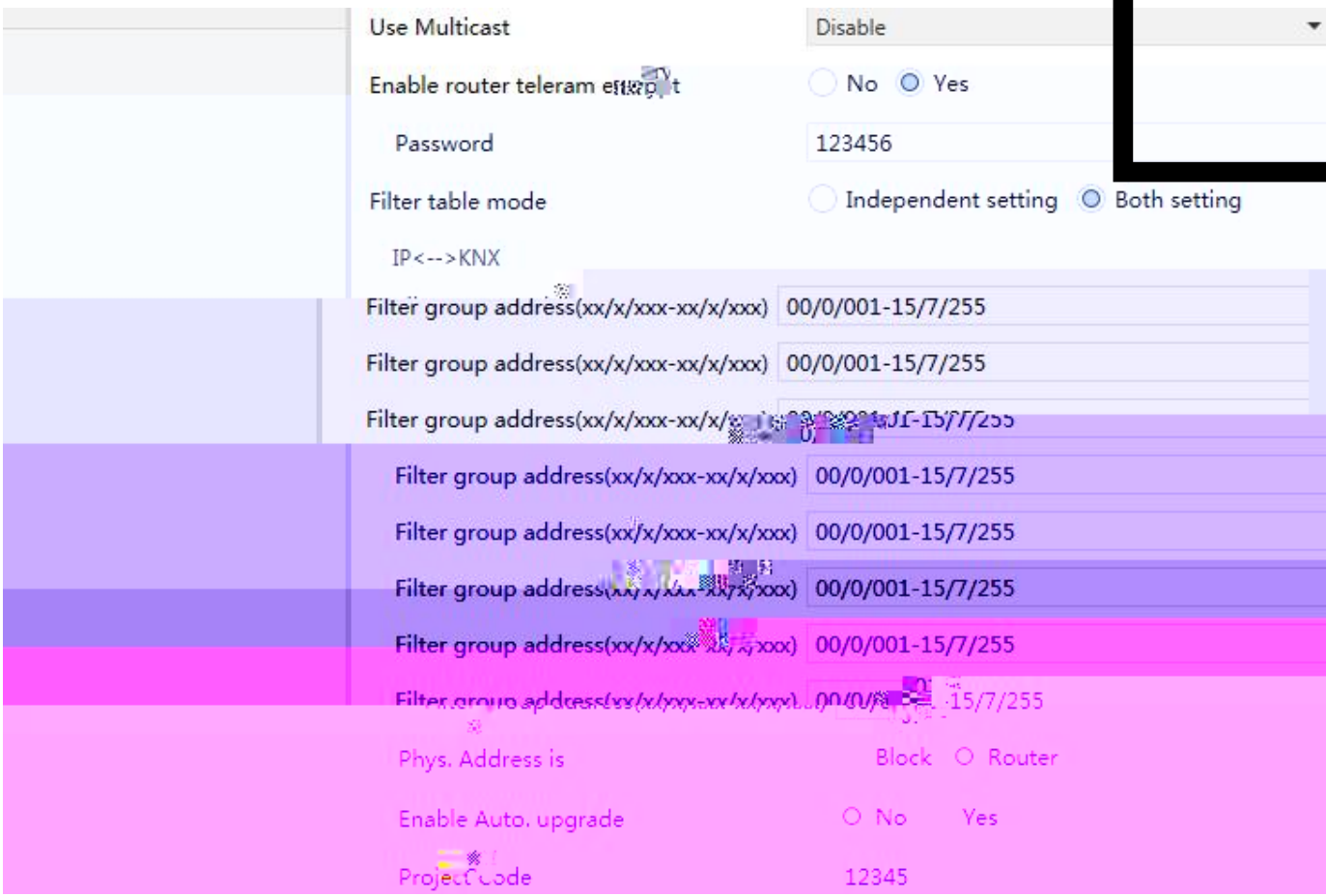
k

cpp

0 no error/1=error “Local sensor

5.1 IP □ □ IP k


Input & LED & IP General
Device name (max. 30 char.)
KNX IP Interface


Use Multicast
Disable
Enable router teleram
No
Yes
Password
123456
Filter table mode
Independent setting
Both setting
IP<-->KNX
Filter group address(xx/x/xxx-xx/x/xxx)
00/0/001-15/7/255
Phys. Address is
Block
Router
Enable Auto. upgrade
No
Yes
12345

“ ”

“ ”

□ □ 30 Æ Æ k

“ ”

IP □ IP □

“ ”

□ k □ Byte x □0、 255

□ □ 255.255.255.0 □

- □
- □
- □
- □

“ ”

□ □ □ IP k □ Byte x □0、 255

□ □ □ □192.168.1.1□

- □
- □
- □
- □

“ ”

IP k □

KNXnet/IP 224.0.23.12□ KNX IANA k

□ k

k □ k

- □
- □
- □
- □

KNX IP IP IP

“ ”

k □

“ ”

“ Yes ” □ k

“ ”

k □

: IP-->KNX KNX-->IP k

□ IP<-->KNX k

“ ”

□ 8 k

k

□ k

□ □ □ □ □

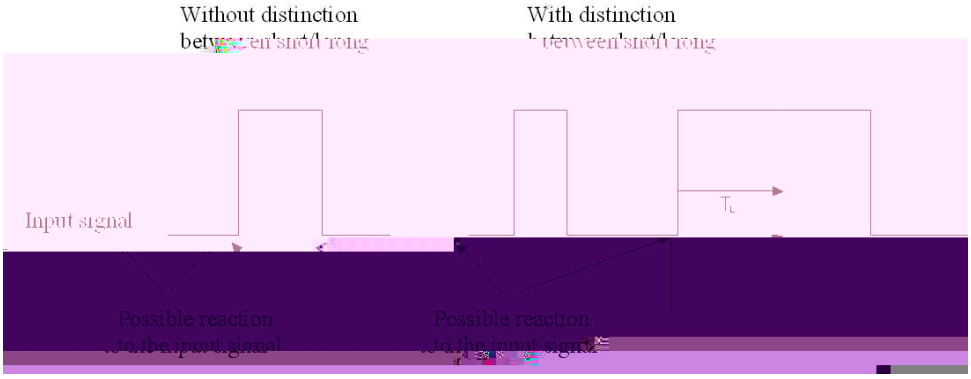
“ ”

k □

“ ”

k □

“



k

k

/ k “ Switch ” k

“ If switch off ” “ If switch on ”

k

“ Always ” “ switch operation ” 0 1

k

/ k “ Switch ” k

□ □ “ On ” , □ “ Off ” k

□ □ k

□ □ □ □

k k □ □ k

” ” “ ”

□ □ k □

” ” “ ”

□ □ k □2..50000

“ ”

□ □ k □2..50000

“ ”

“ Switch ” □ / k

□

“ Yes ” , “ Switch ” k

“ ” “ Stop cyclic send ” k

“ Disable=0/enable=1 ” □ “ Enable communication ” “ 0 ” □ x

□ “ 1 ” □ x k k

□ □ k

“ ”

□ □ k

□

、 、

x



“ ” □ □

“ ”

/ □ □ □ □

k □

□ Normally open □ □ k

/ k / □ k

□ k □

“ ” “ ”

“ Delay mode ” □ □ □ k

□

“ ” “ ”

k □ 2..50000

/ □ k

□ □ k □ 2..50000

“ ”

“ Switch/Dimming ” 5.7 □ “ Switch/Dimming ” k

k

“ Only dimming ” □ □

“ React

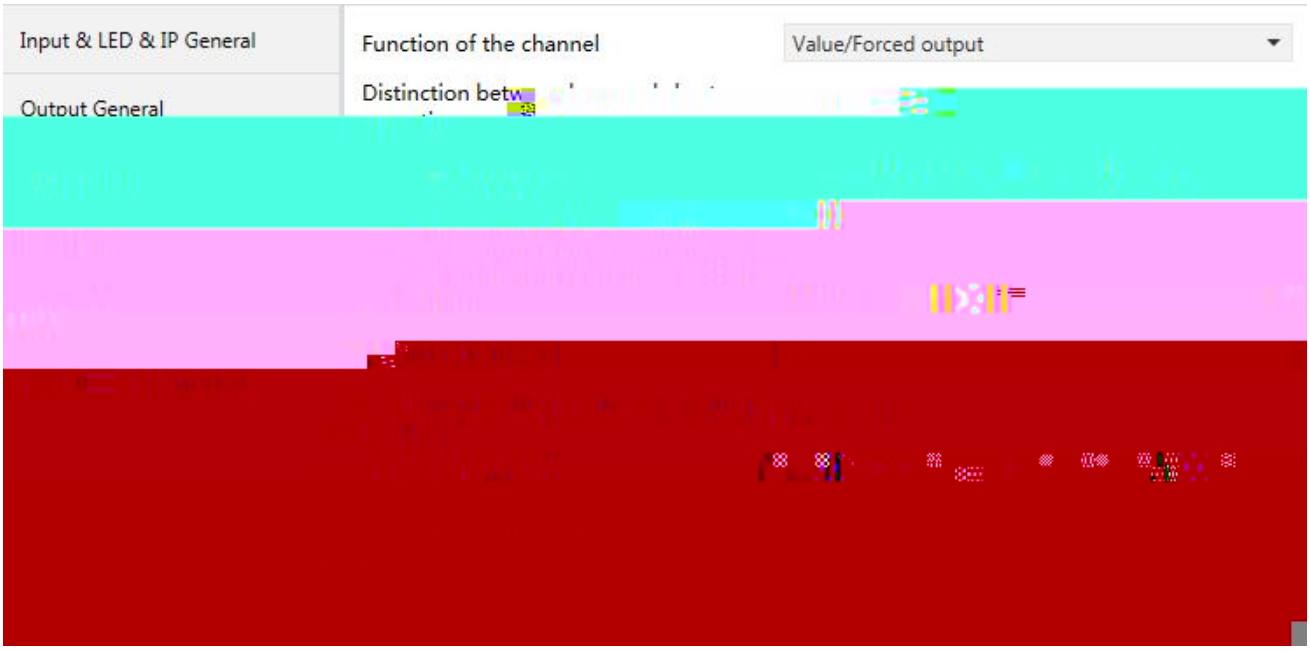
“ ”

“ Value/Forced output ” 5.8 “ Value/Forced output ”

k



“ ”



“ ”

“ ”

/ k “ yes ”

k

“ ”

/ □ □ □ □

k □

□ □ □ □ k

“ ”

/ □ k

□ □ k □2..50000

“ ”

/ □ 5.8_1 □ “、

-long/open(short/close) ” k “ yes ”, “、 -long/open(short/close) ”

k □

“ ” “

”

/ □ / □ □

/ □ □ k

5.8 □ □

、 、

、

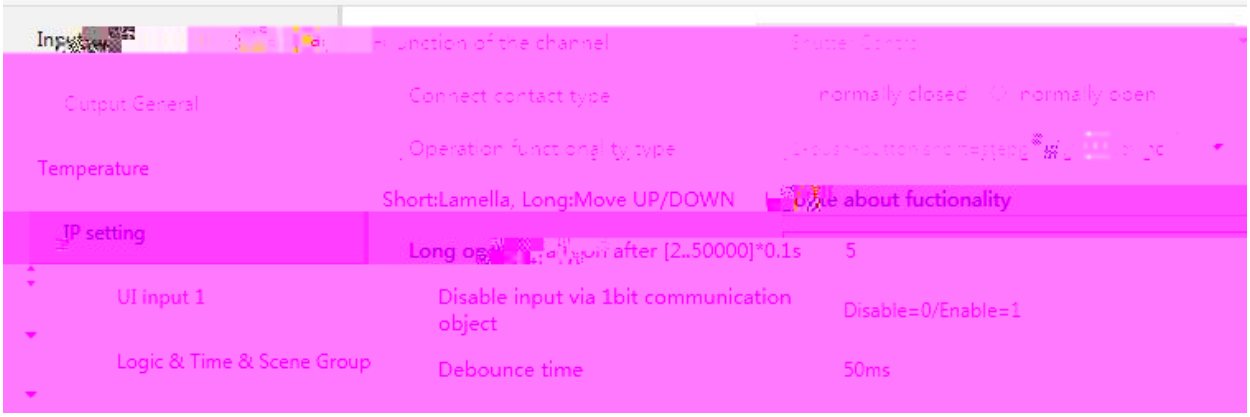
“ 、 ”

k k

“ ”

“ Shutter control ” 5.9 □ “ Shutter control ” k

□ k

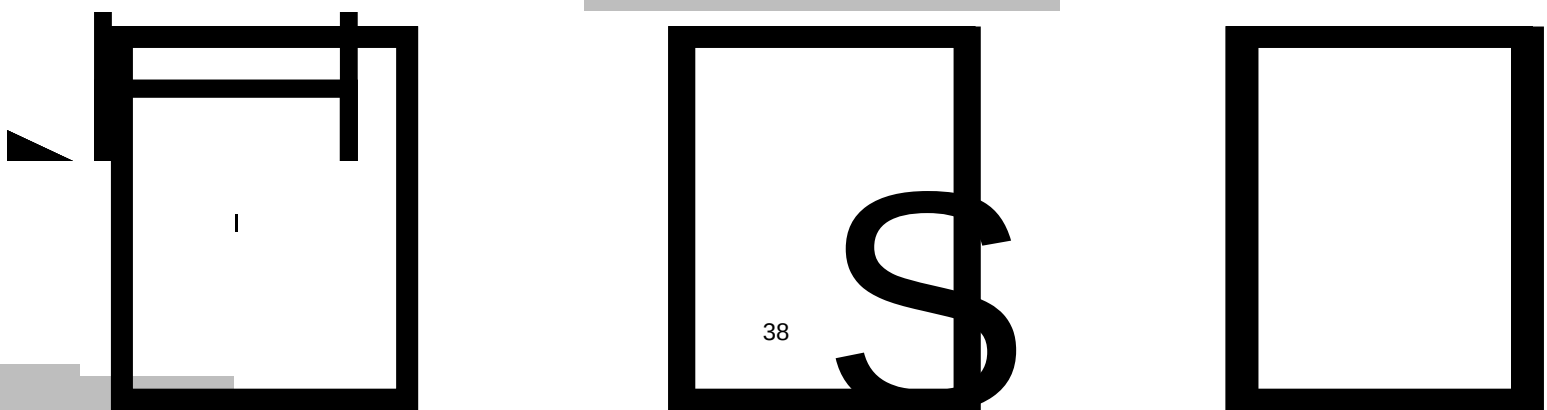


“ ”

□ □

..... □> □> / □> □> /

□>.....

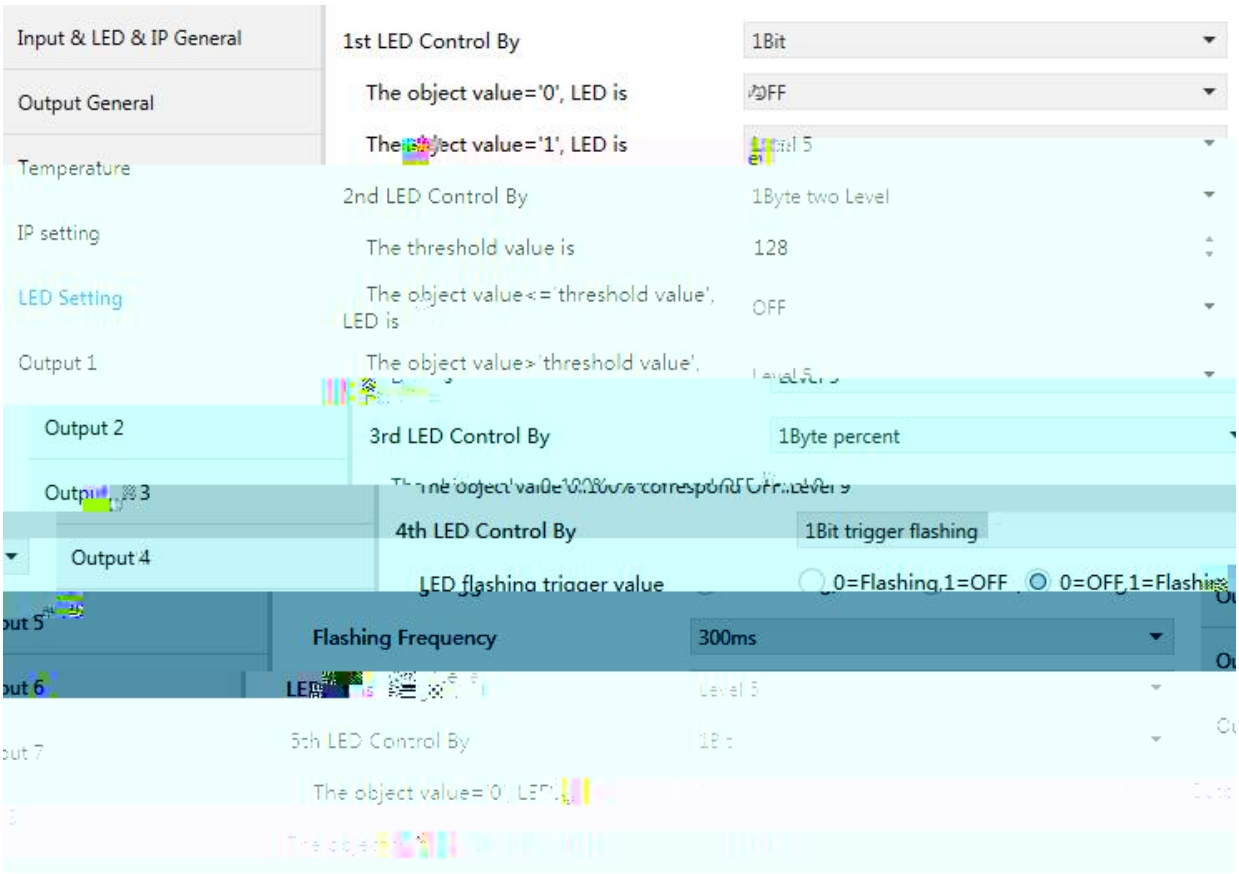


“ 2-push-button, standard ”

“ 2-push-button, standard ”

LED k LED □ 5 k

LED □ LED □ LED k



“ ”

LED □ □

LED □LED “ 1 ” “ 0 ” k

□

LED

25 k

! k

5.2 5.11 k



“ ”

k

□ □

□ □

□ k

□ □ k

“ ”

k □

“ Switch ” “ 1 ” □ □ “ 0 ”

□ k k

“ ”

k □

□ □ “ Switch status ”

□

□ □ “ Switch status ”

k

“ ”

k □

□ □ 8 k

“ ”

64 k

□ 1... 64 □ 0=no allocation

□ □ k k

k □

2 □ □ k

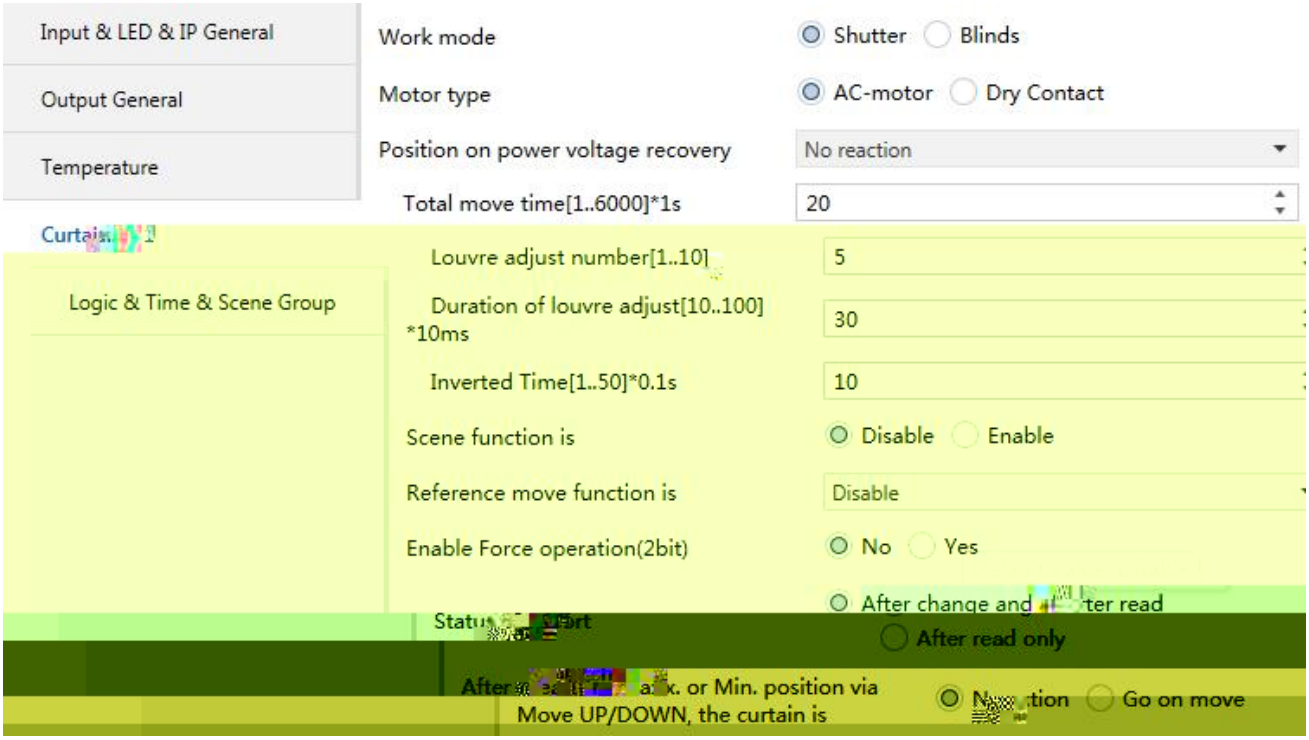
5.2 □ □ 5.12 k

□ Shutter Blinds k

Shutter □ Blinds k

“ ”

“ Shutter ” 5.12 k



“ ”

“ ”

□ □ k

□

“ Shutter ” □ □ k

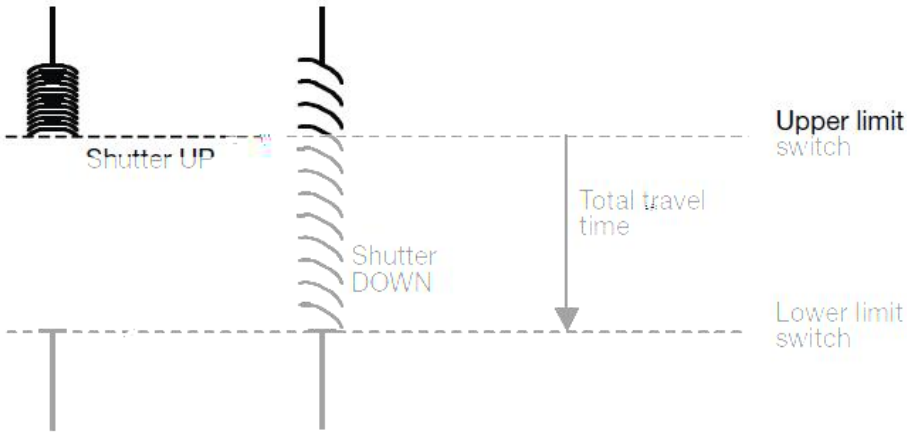
“ Blinds ” □ “ Shutter ” □ k

“ Shutter ” k

“ ”

k □

“ AC-motor ” , k



k

k

k

k

k

k

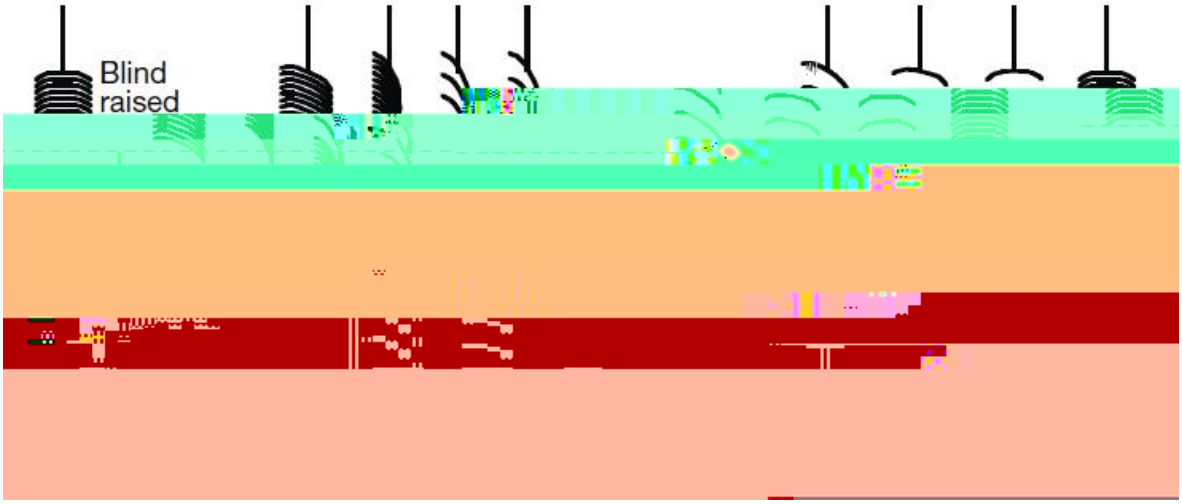
k

k

k

k

k



k

k

k

k

8 ,

5.8.1.2 k

k

“ Reference movement ” ‘ 0 ’

‘ 1 ’ k

“ Reference movement ” ‘ 0 ’ ‘1’ (

‘ 0 ’) ‘ 1’ k

□ □ k

□ □ □

□ □ □

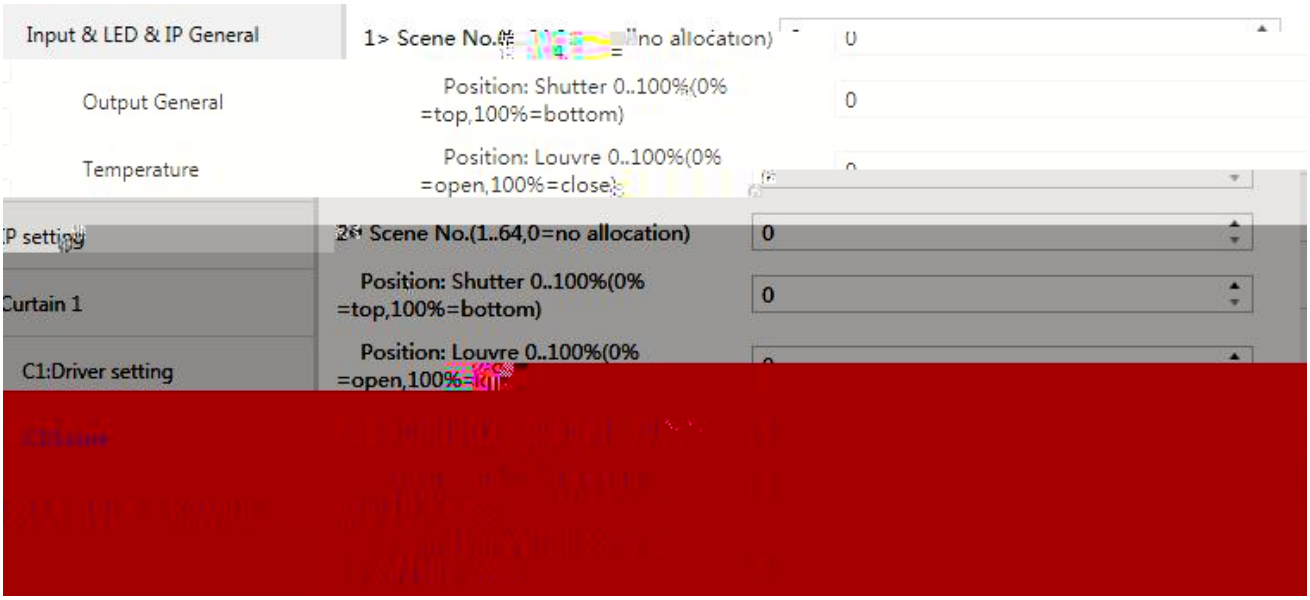
k 5..255

255 k

“ ”

“ Scene ” 5.14 k

8 , k



“ ”

“ ”

64 k

8 k Scene 1... Scene 64 0=no allocation

k k

“ ”

0、100% 0% top, 100%=bottom

“ ”

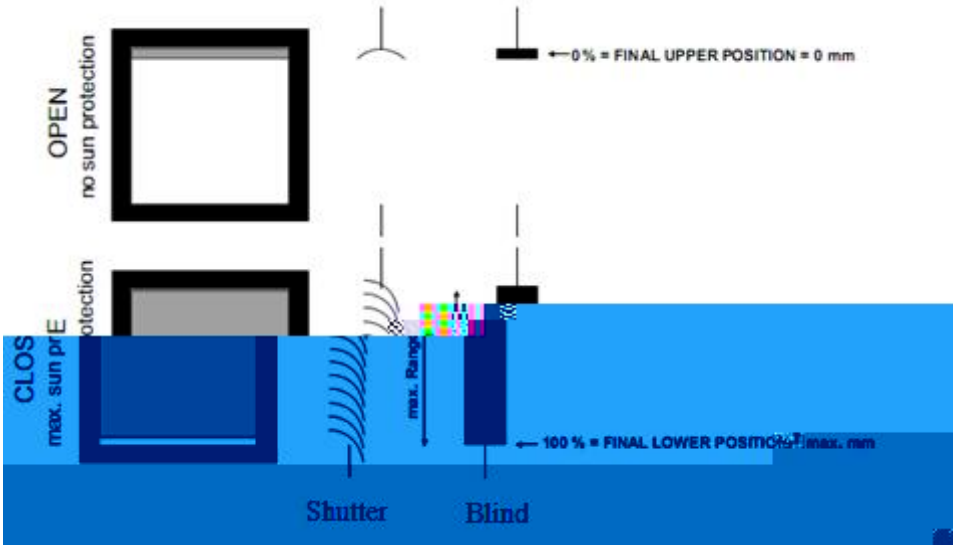
0、100% 0% opened, 100%=closed

“ ”

“ Blinds ” “ Shutter ” □ k

“ Blinds ” k “ Blind ” □ k

“ Shutter ” “ Blind ” □



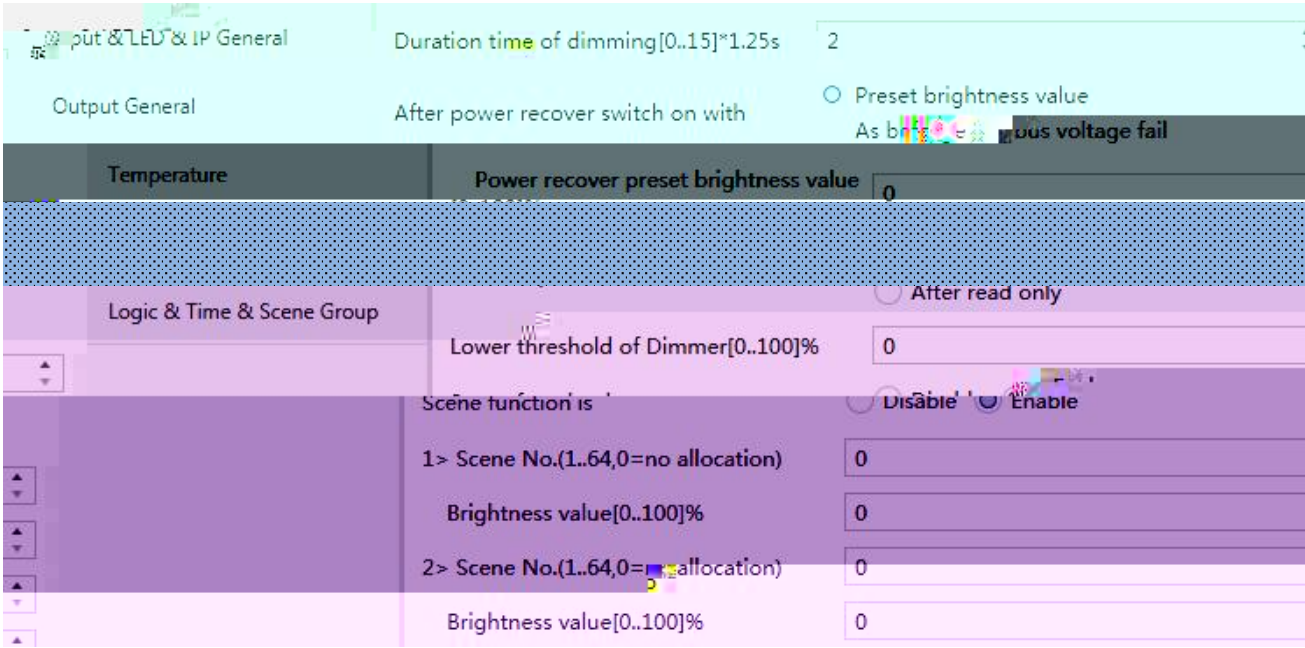
“ Blinds ” □ “ Shutter ” ( ) k

5 □ 2 □3 0-10V k

□ k

0-10V □ 5.2 k

5.2 □ □ 5.15 k



“ ”

□ □ k

“ ”

□ 0% φ 100% k

“ ”

k □

□ /

“ Switch status ” / “Brightness status”

□ /

“ Switch status ” /“Brightness status” k

“ ”

□ k □0~100% k

□ □ □ k

□ k

k

“ ”

k □

□ □ 8 k

“ ”

64 k

□ 1... 64 □ 0=no allocation

k k

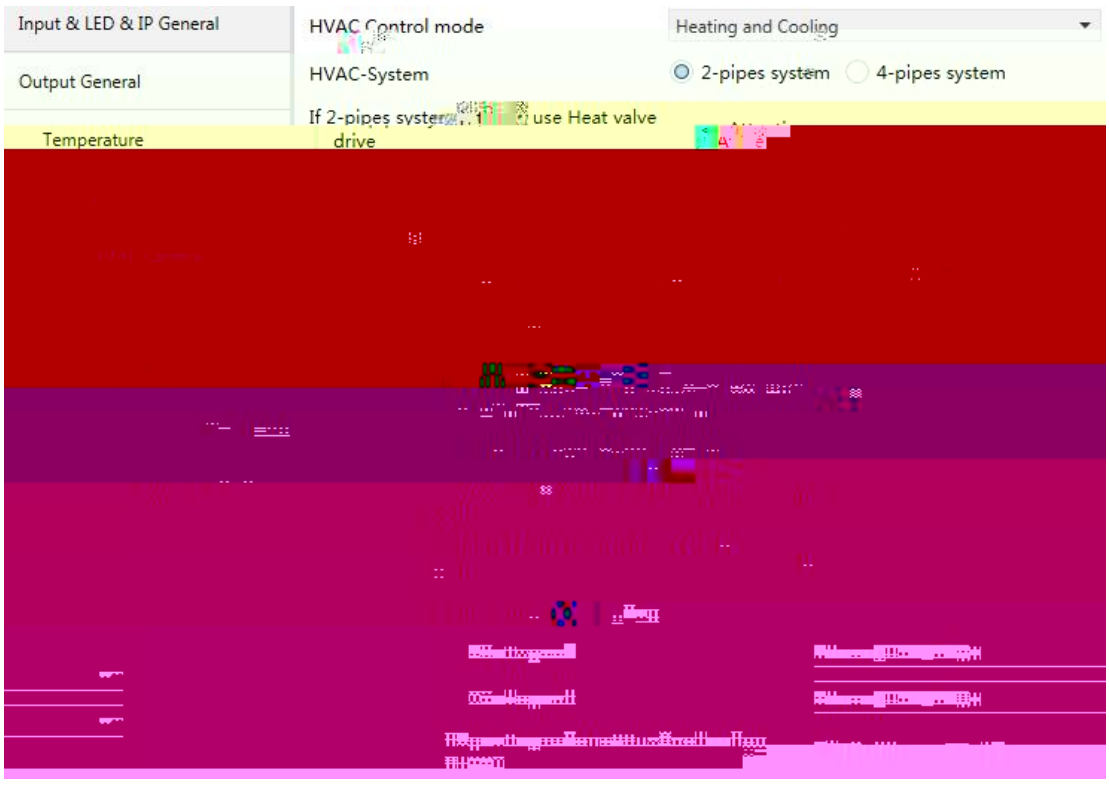
“ ”

0% φ 100%

“HVAC General” 5.16 Local (Bus)

k

k k



“ ”

k

k

k

k

“ ”

“ ”

4.2 “HVAC-System” “2 pipes system”

k

“ Heating/Cooling mode ”

k k

“ ”

/ k

“ Switch Heat/Cool mode

□

• • “

• • “ ”

PI k □

□ □

□ □

□ □

“ ”

“ ”

“ Heat /Cool speed ” “ User defined ” □ PI PI k

HVAC k □

□ “ Status of operation ” k □

7	6	5	4	3	2	1	0
	0 □Limit 4 1 □Limit 4	0 □Limit 3 1 □Limit 3	0 □Limit 2 1 □Limit 2	0 □Limit 1 1 □Limit 1	0 □ 1 □	00 □ 01 □ 10 □ 11 □	

“ ”

“HVAC-System” “4 pipes system” □ □

k □

“Control value fault” k

“Control value fault” k

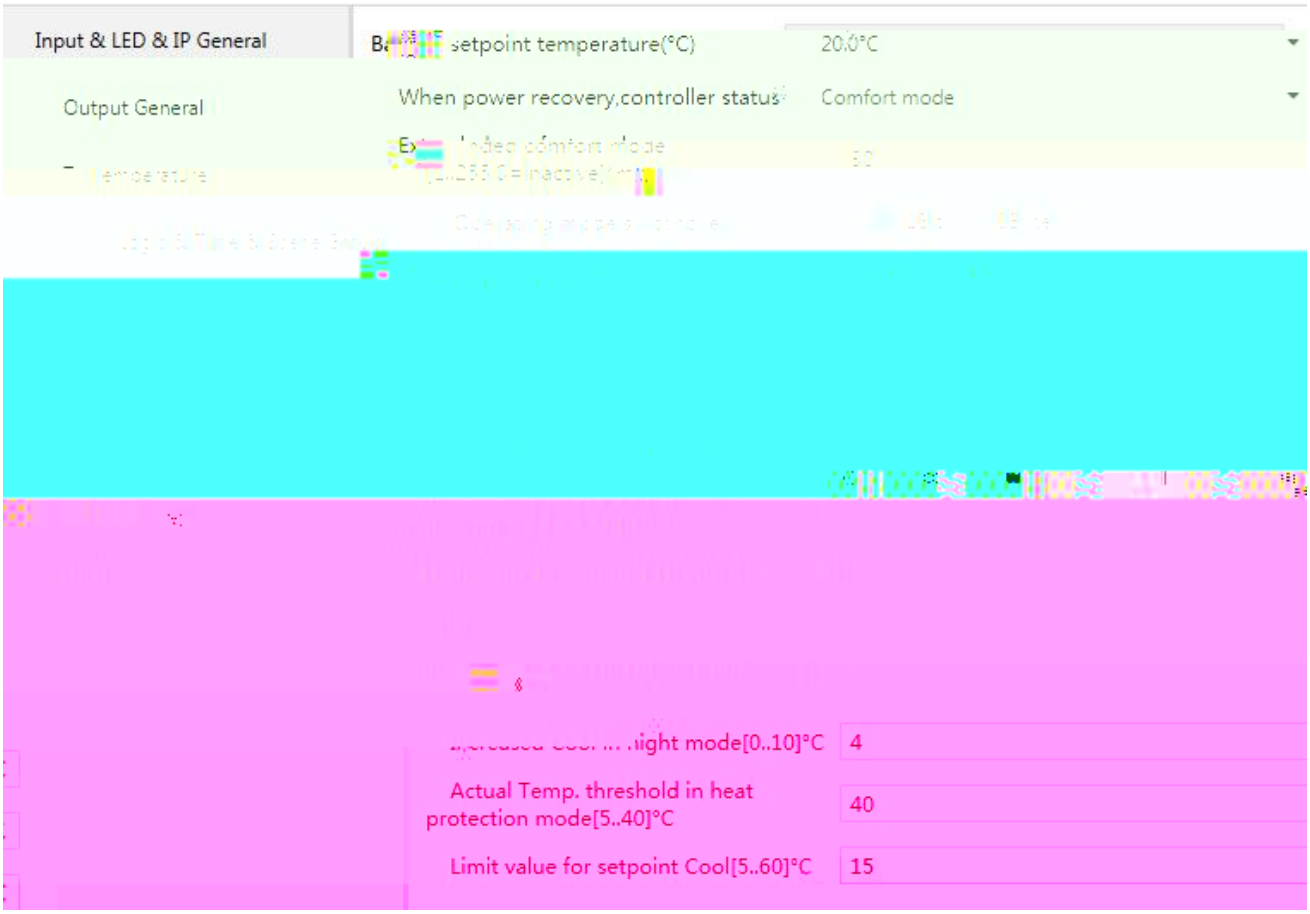
k 0…100 %

1. 0
2.

“Setpoint” 5.17 .

5.16 “ Controller define” “Local” k

□ “ Heating ” “ Cooling ” 5.16 “ HVAC Control mode ” □ k



“ ”

“ ”

□ k □15、30 [ ]

“ ”

□ □ □ k □

k

“ ,”

“ ,”

k □ 0...10 [ ]

□ □

□ k

“ ,”

“ ,”

k □ 0...10 [ ]

□ □

□ k

“ ,”

k □2...10 [ ]

□ □

k □ 5, □ 5, □ □

5, k

“ ,”

k □5...40 [ ]

□ □ □ □

k

□ 30, □ □ 30, □ □

30, k

“ ”

“ ”

k

k

“ Setpoint ” k

k

2-pipe system = + k

4-pipe system = + + k

= - + k

= + +

= - + k

= + +

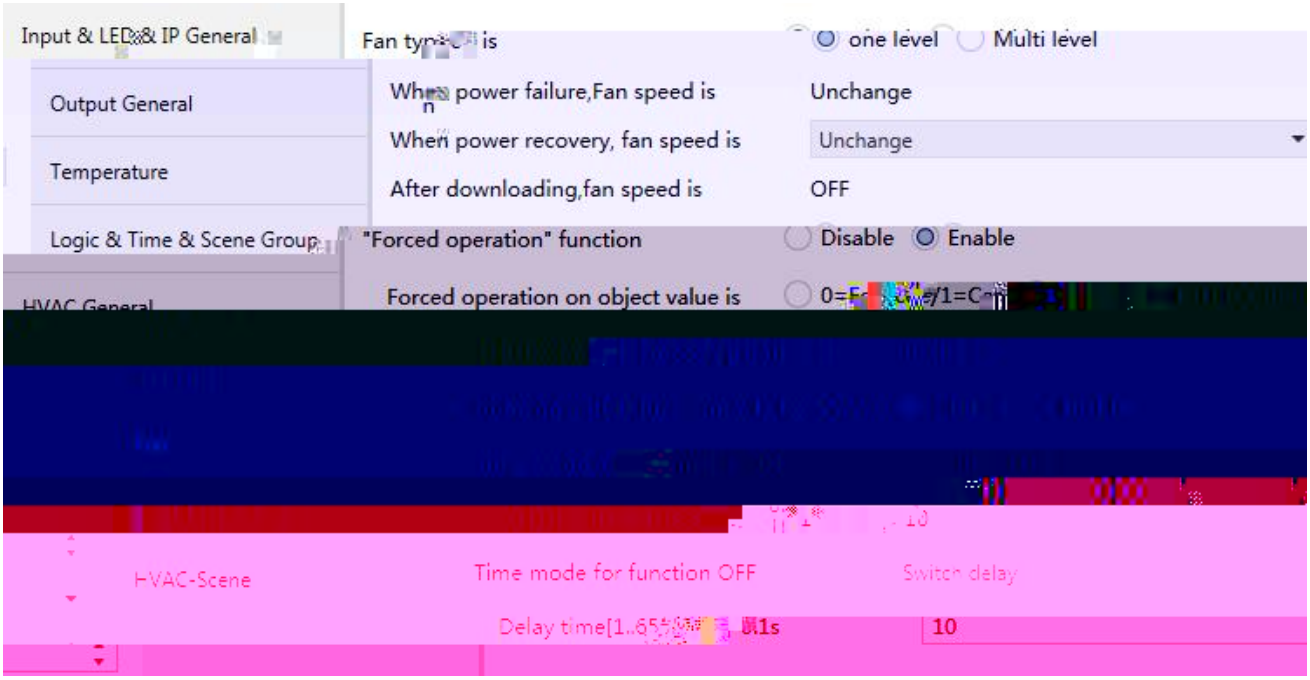
= k

= =

0-10V k

k

“ Fan type -- One level ” 5.18 1 k



“ ”

“ ”

k

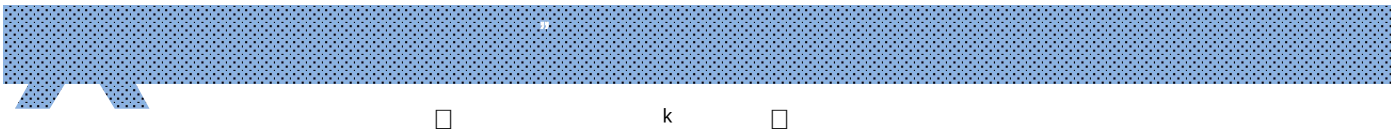
1 k

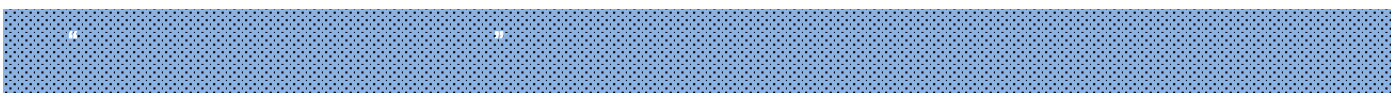
3 2 3 k

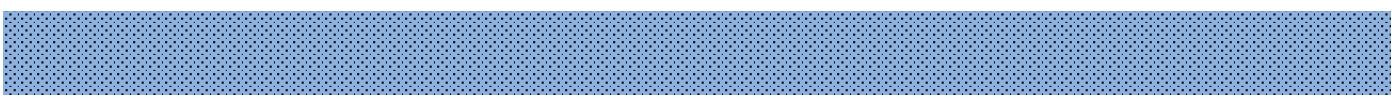
“ ”

k

k







“Enable”,1bit “Forced operation”

“1” □ □

□ “Fan Forced operation” “1” □ □

“0” □ k

□ k □

□ □

□ k

□ □ k

k □

5.19 k

□ □ ! k

□ □ k k

k □

□ □



k

k 1...65535

k 1...65535

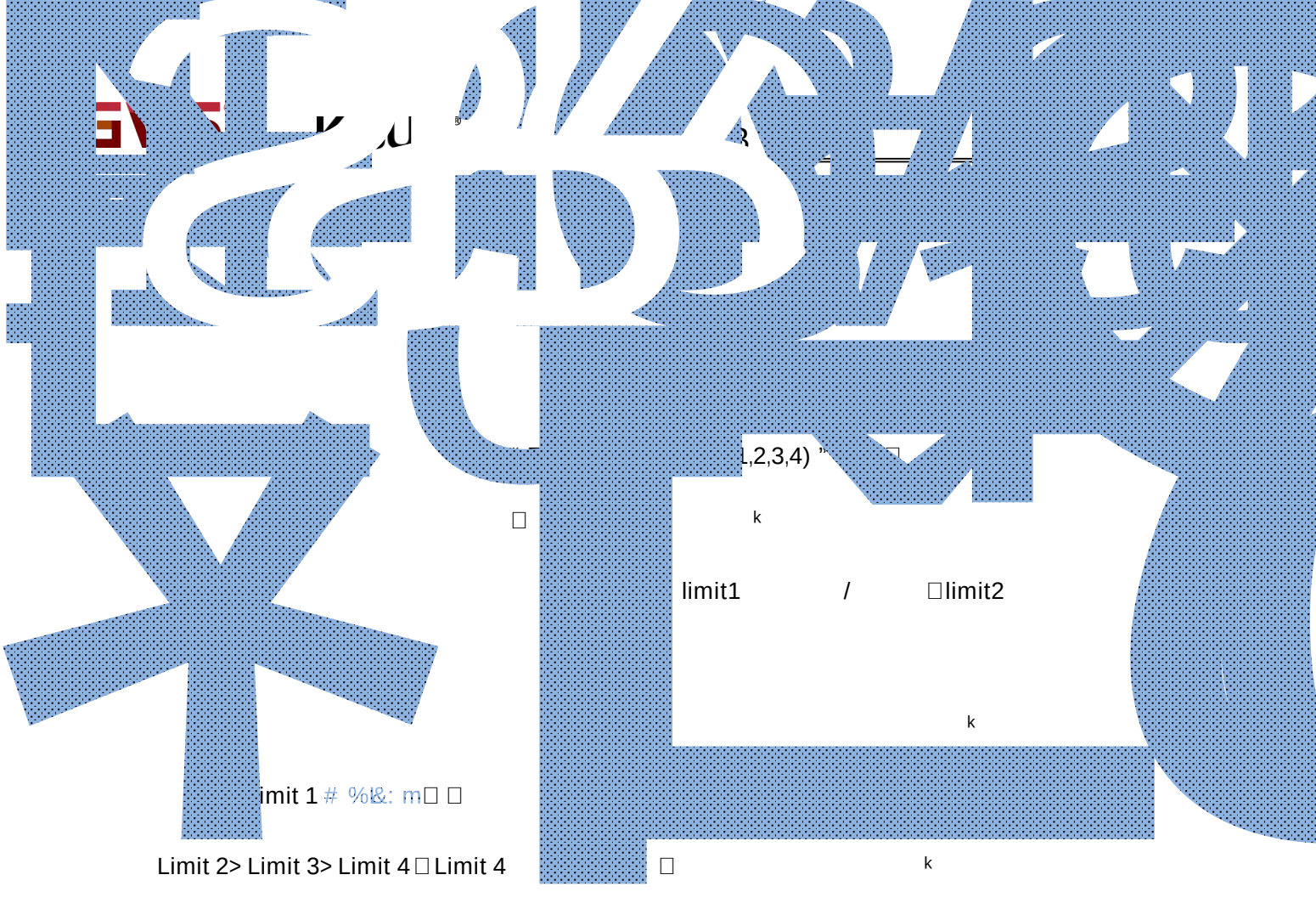
“ ”

5.18 “Auto. operation function” “Enable”

5.19

□

“ C l value ” k 1、255



,2,3,4) ”

k

limit1 / limit2

k

imit 1 # %& m

Limit 2> Limit 3> Limit 4 Limit 4

k

“ Fan Limitation x (x=1,2,3,4) ” “ 1 ” “ 0 ” k

1 4

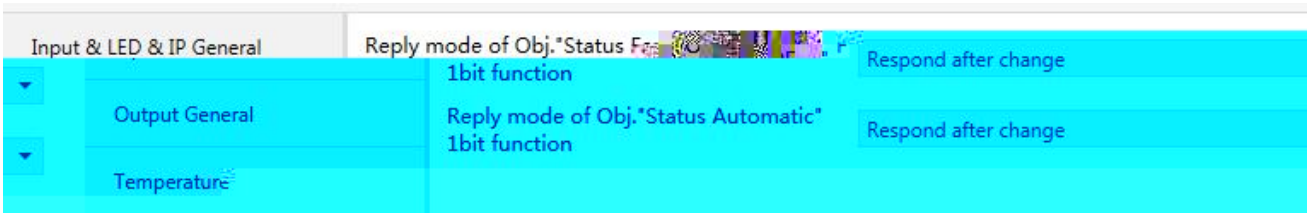
k

x OFF

x ON k

“ ”

“ Fan status ” 5.20 k



“ ”

k

“ Status Fan ON/OFF ”

“ Status Fan ON/OFF ”

“ Status Fan ON/OFF ” k

k

“ Status Automatic ” “ 1 ” “ 0 ” k

“ Status Automatic ”

“ Status Automatic ” k

“ Status Automatic ” k

“ Multi level ” 2 3 k

2 k 3 3 k

□ □ k

□ □ k

□ □ □ k

□ k

“ ”

□ k

□ □ □ k

□ k □

□ □

□ □ 1□2 3□

□ k

□ □ □ □

k

□ □ k

□ k

“ ”

1 □ □ 1□

□ □1-255

“ ”

2 □ □ 2□

□1-255

“ ”

3 □ □ 3□

□1-255

k □

□ □ □ □

1bit “ Forced Operation ” □ □

k

’ ’ “ ”

k □

□ “ Forced Operation ” “ 0 ” □ □

“ 1 ” □ k

□ “ Forced Operation ” “ 1 ” □

□ “ 0 ” □ k

k

k

k

o-ºP·ÍØ×Ì± ñ¤sD›–P ¹y€Ò·€

k

5.22

3 1bit

1bit 1byte

□ 1bit “ Fan speed 1 ” , “ Fan speed 2 ” “ Fan speed 3 ” k

“ 1 ” □ □ “ 0 ” k

ON/OFF □ k

□

□1bit “ Fan speed Up/Down ” □ “ 1 ” □ “ 0 ”

k

□ 3□ □ □ □ □ □

□ □ k

□ □ 1□

□ 3 k

k

□ speed1□ OFF □ □

k

□ □ “ 、 ” k

□ k

□ □ □ □

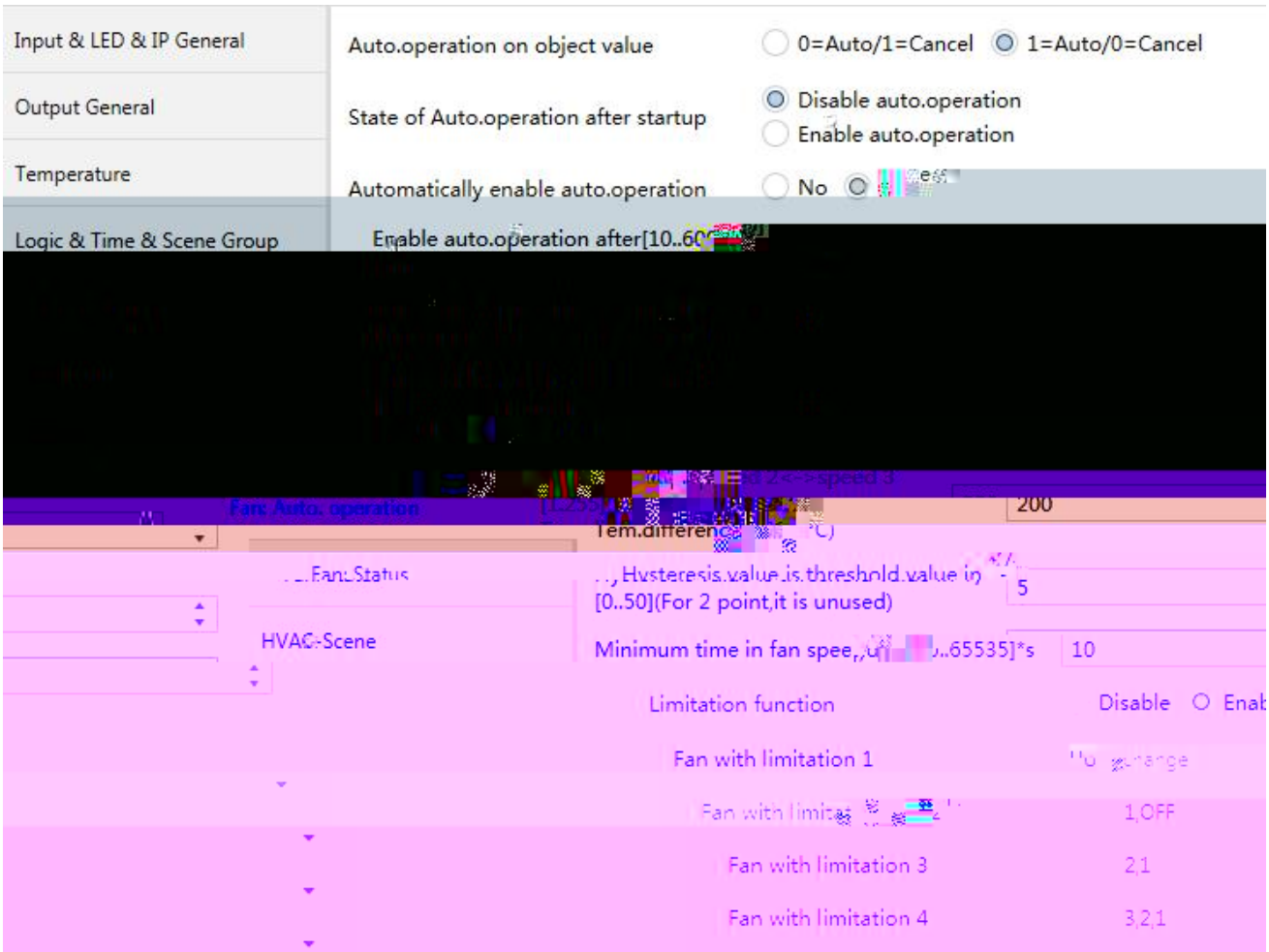
□ k

! □ □ □

“ ”

5.21 “ Auto. operation function ” “ Enable ” 5.22 k

k PI 4 k



“ ”

k

“ Fan Automatic ON/OFF ” “ 0 ”

“ 1 ”

k

k

k

k

k

k

k 10..6000

1 1、255

1

k

2 □ □ 2 k

□1、 255

3 □ □ 3 k

□1、 255

□

□ □ □ k

□ □

k

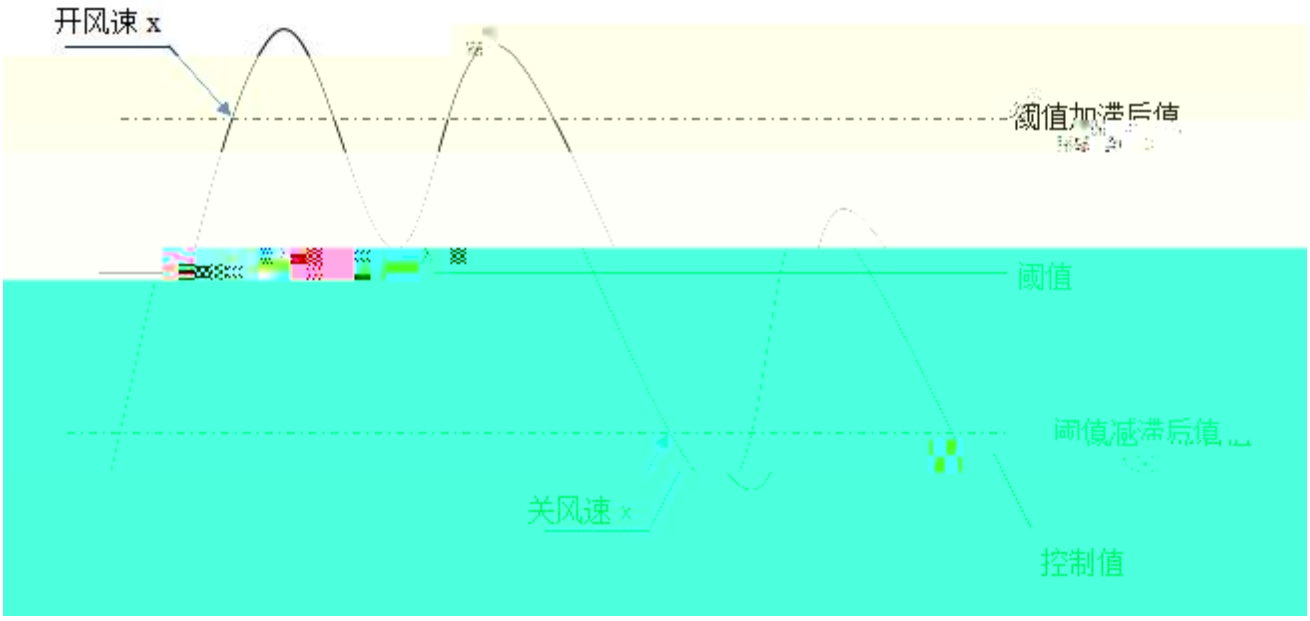
□ k □0、 50

0□ □ □ □

10□ 50□ 60□ + □□ 40□ - □□

40~60 □ □ k

40 ( )60 k □



□

□ □ □

□

□□□□



□ □ □ □ □

□ k □ k

□ □ □

k

□ □ □ k□ □

□

“ ”

□ □ □ □

k □

“ Disable ” □ □ □ □

“ Unchanged ” □ □ □

“ 1 ” □ 1□

“ 1, off ” □ 1 □

“ 2 ” □ 2□

“ 2, 1 ” □ 1 2□

“ 2, 1, off ” □ 1□2 □

“ 3 ” □ 3□

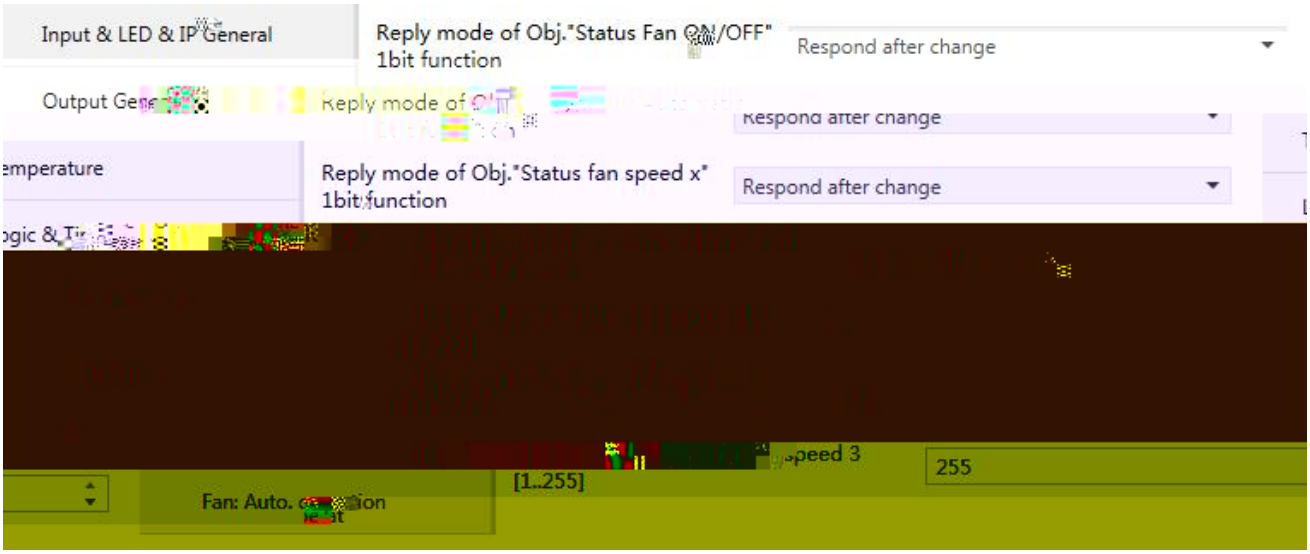
“ 3, 2 ” □ 3 2□

“ 3, 2, 1 ” □ 1□2 3□

“ off ” □ k

“ ”

“ Fan status ” 5.23 □ k



“ ”

“ “ ” ”

k □

□ □

“ Status Fan ON/OFF ” □

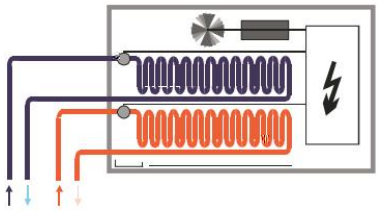
□ □ “ Status Fan ON/OFF ” □

“ Status Fan ON/OFF ”

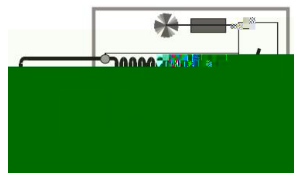
k

k

“ Status Automatic ” “ 1 ” “ 0

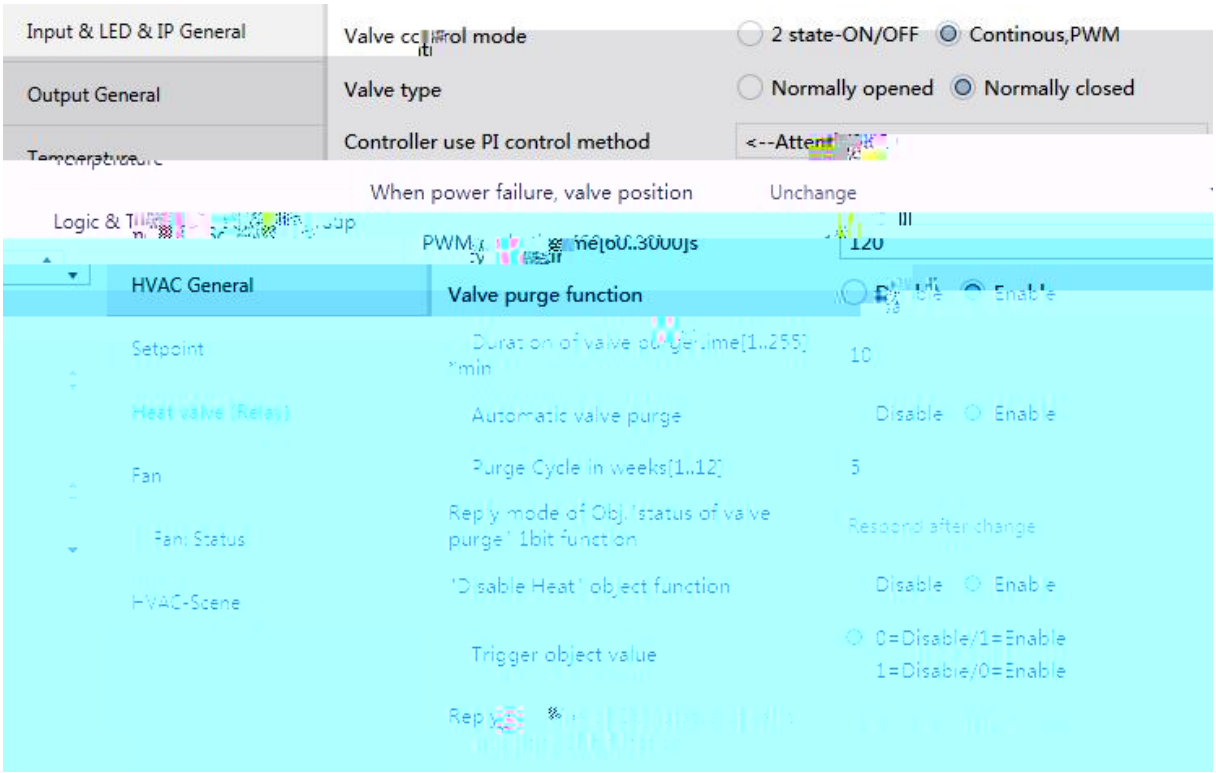




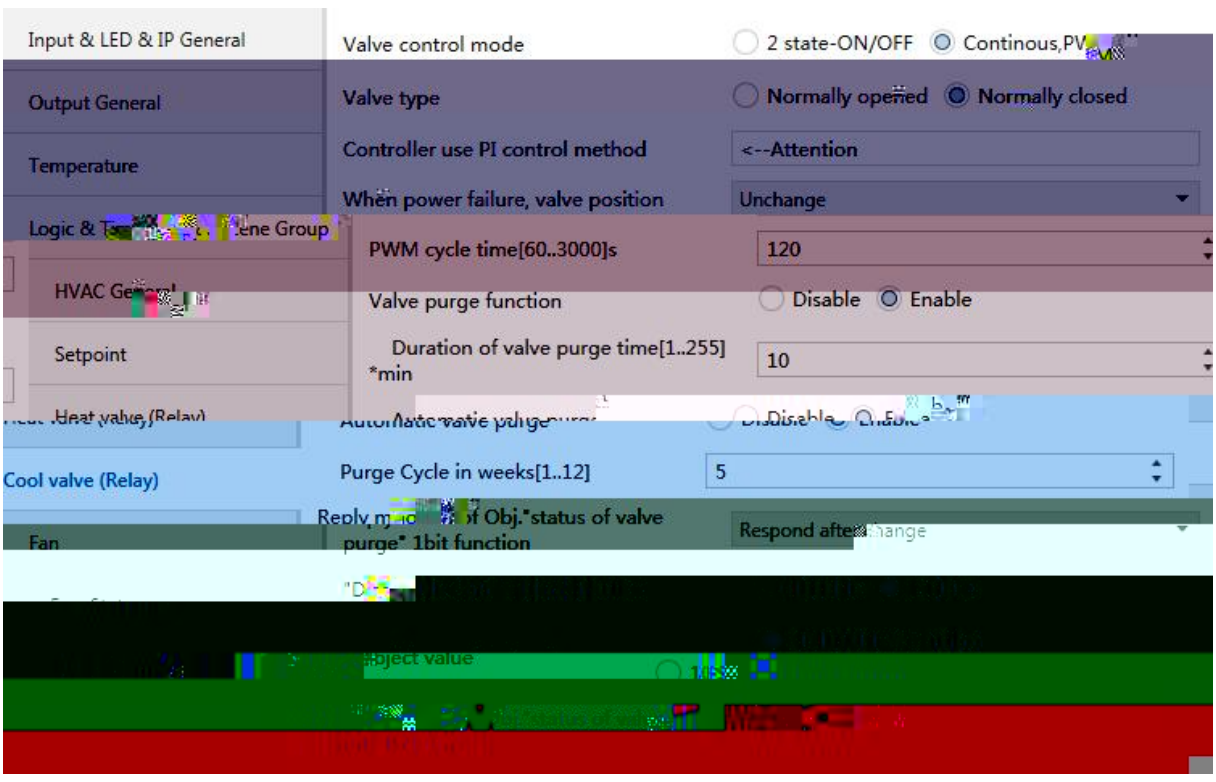


“Heat valve (Relay)” “Cool valve (Relay)” 5.24 5.25

/ / k



“ ”



“ ”

k

PWM k

“ ”

k

k

“ 2 state-ON/OFF ” k

“ Continuous, PWM ” PI k

“ ”

“ Continuous, PWM ” PWM k

60...3000s

1bit “Trigger valve purge” k

“ ”

/ k

“ ”

“Status of valve purge”

“Status of valve purge”

1bit “Disable, Heat/Cool”

valve position”

k □

- “ ”
- “ ”
- “ ”
- “ ”

“Valve adjustment” “Enable” □ k

□ 0...100 [%]

□ □

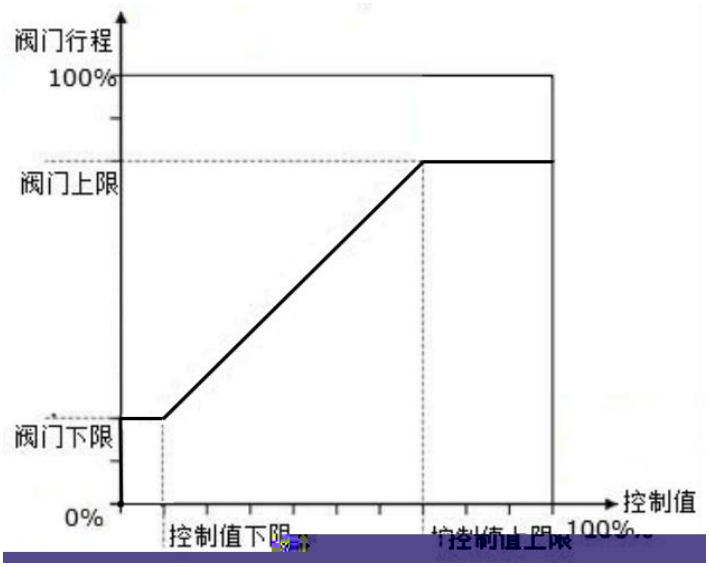
□ □

□ □

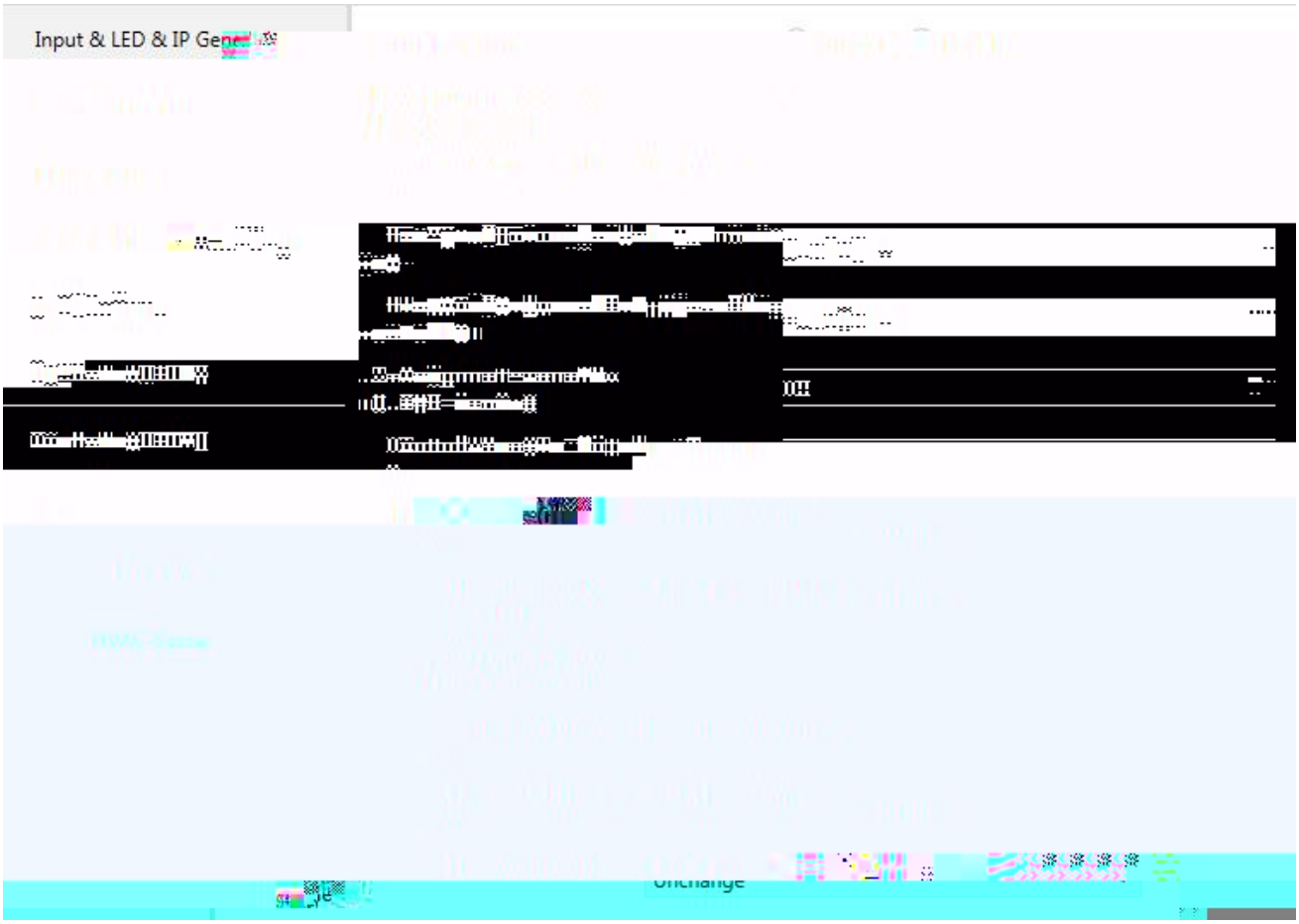
□ k

□ 10%□ 20%□ 70%□

80%□ □



“ Scene ” 5.28 5.29 □ HVAC k



“ ”

“ ”

64 k 1-64 is active, 0 is no assignment.

k k

“ ”

HVAC k

“ ”

k 0...255

0 k

“ ”

□ □ □

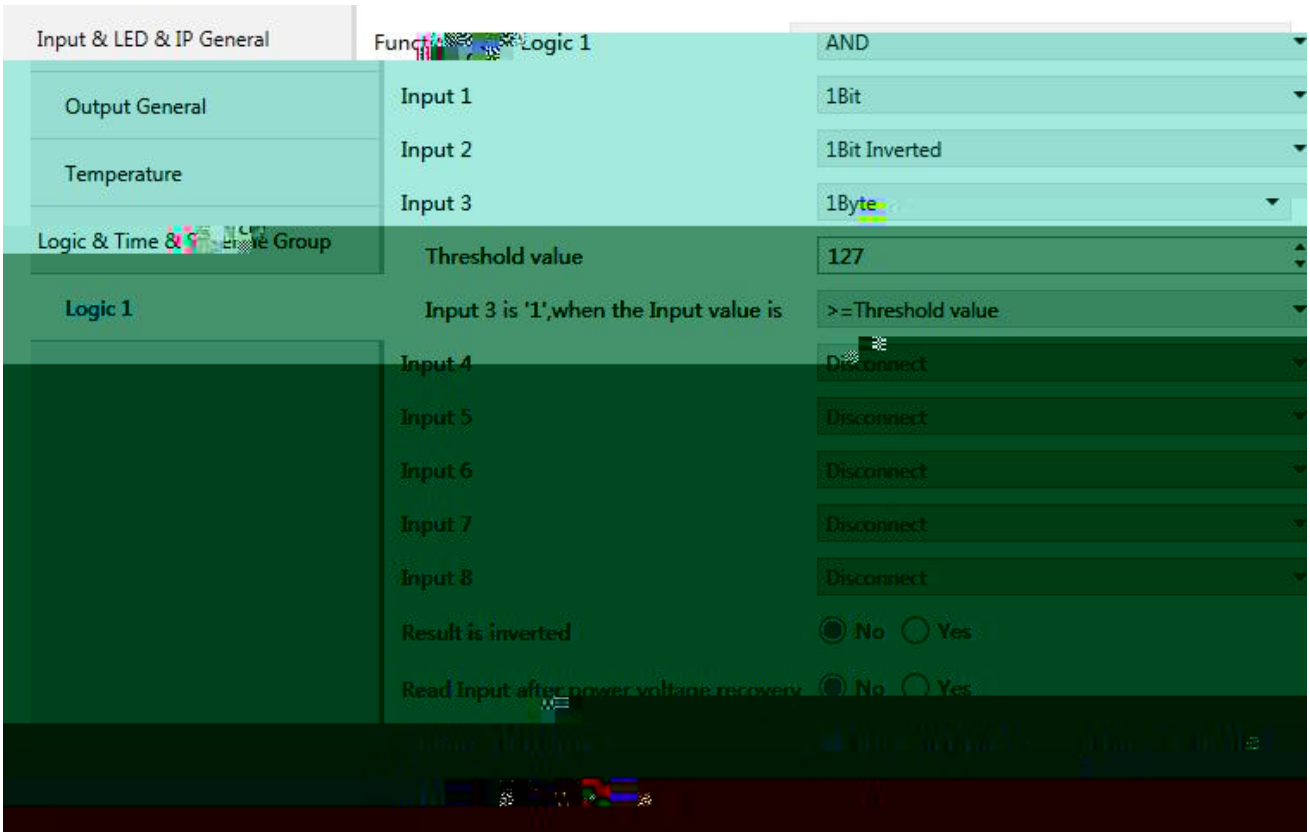
“ ”

HVAC “ Heating and Cooling ” □ / k □

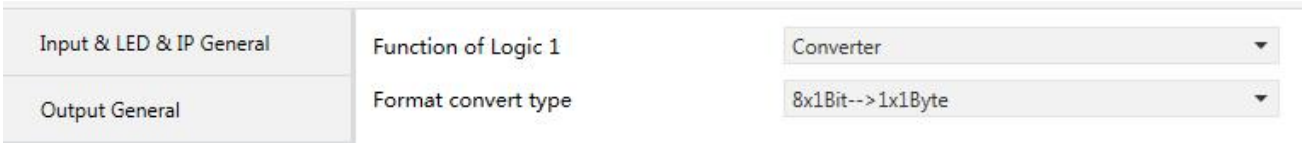
K-BUS®

“ ”

“ Logic X ” 5.31 5.32 □ X □ 8 k



“ ”



“ ”

X k □

AND/OR/XOR □ □ □

k

“ ”

“ AND/OR/XOR ” 5.31

Input x □ □ □

k □

□ □

□ □

□ □ □

□ □ □ k

. .

□ □ 0..255

. .

□ ‘ 1 ’ □ ‘ 0 ’ k □

>= Threshold value: □ 1□ □

0 k

k

k

k

k

k

k

k

k

k

“ ”

“ Converter ” 5.32 k

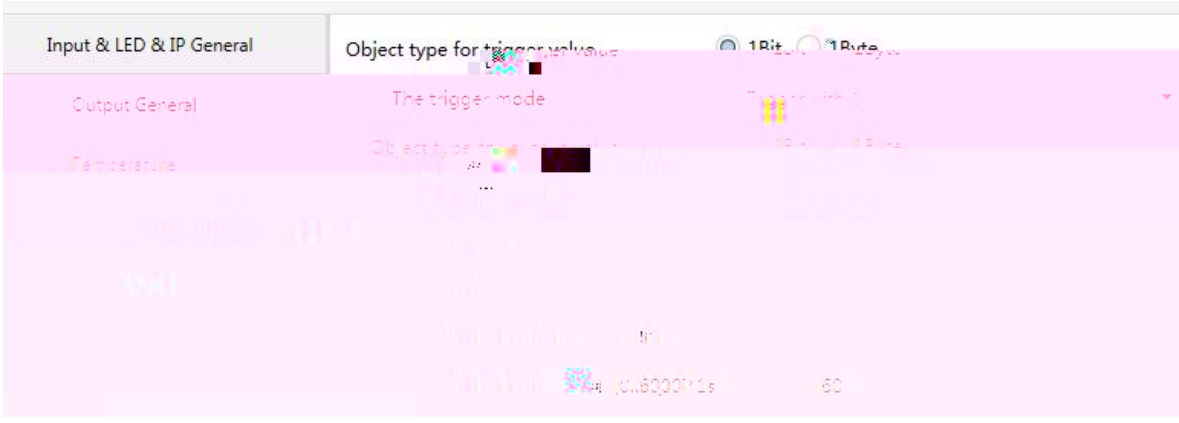
k

“ ”

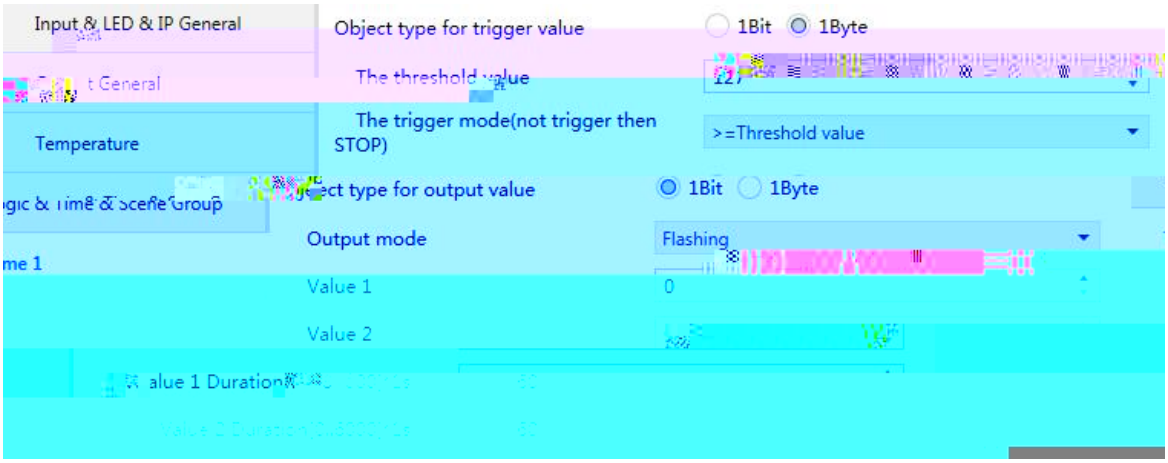
“ Time X ” 5.33 X k

! k

! k k



“ ”



“ ”

“ ”

k

• • “ ”

“ 1Bit ” k

k

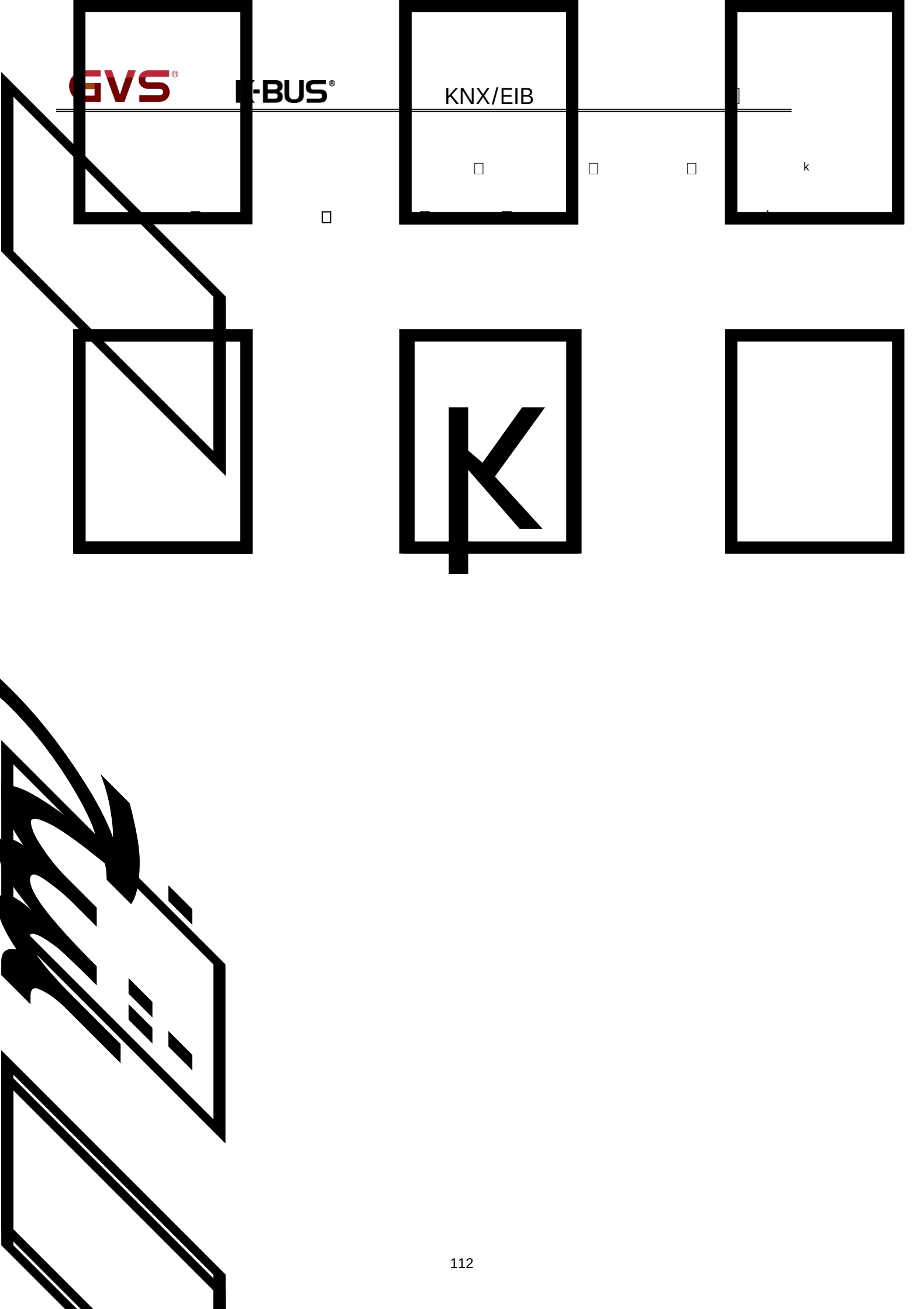
• • “ ”

“ Object type for trigger value ” “ 1Byte ” k

0..255

• • “ ”

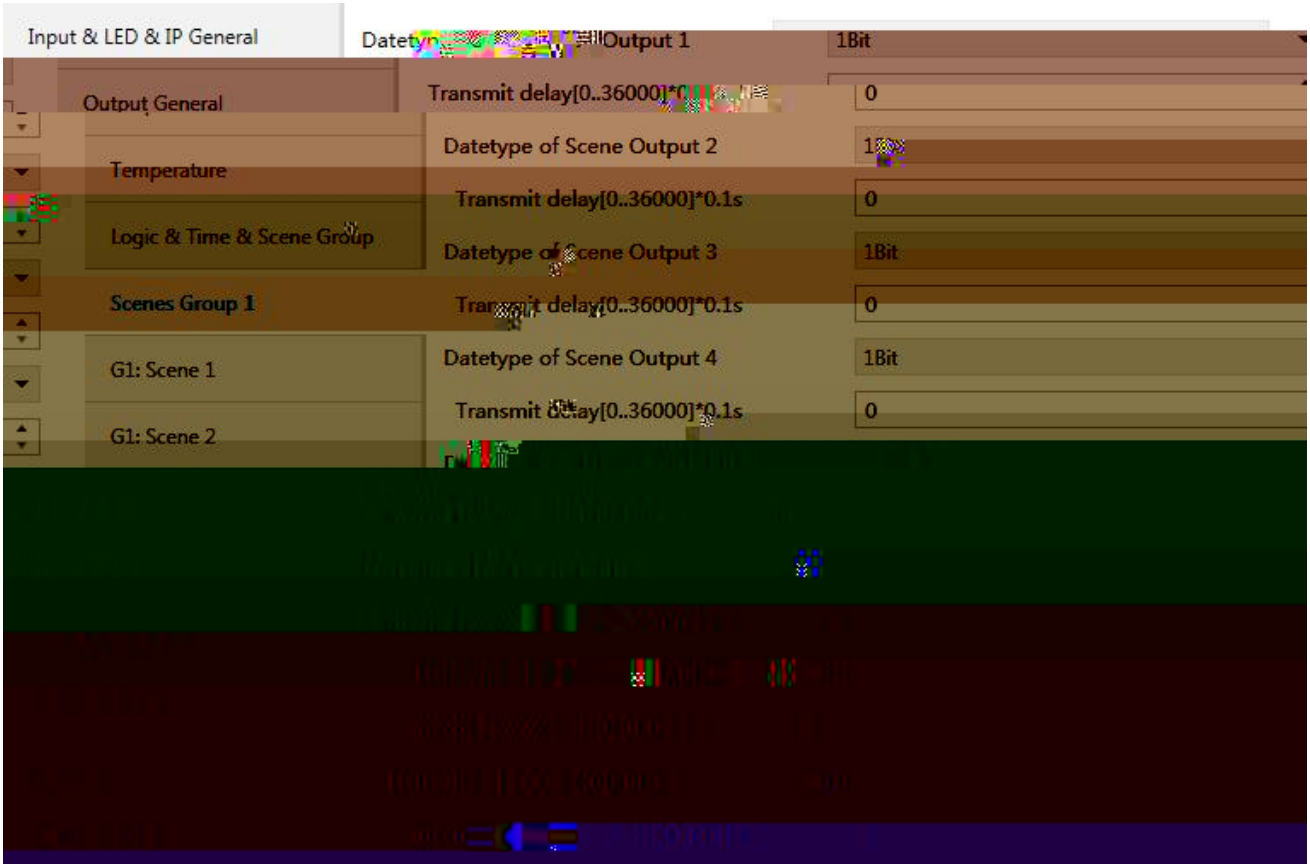
“ Object type for trigger value ” “ 1Byte ” k



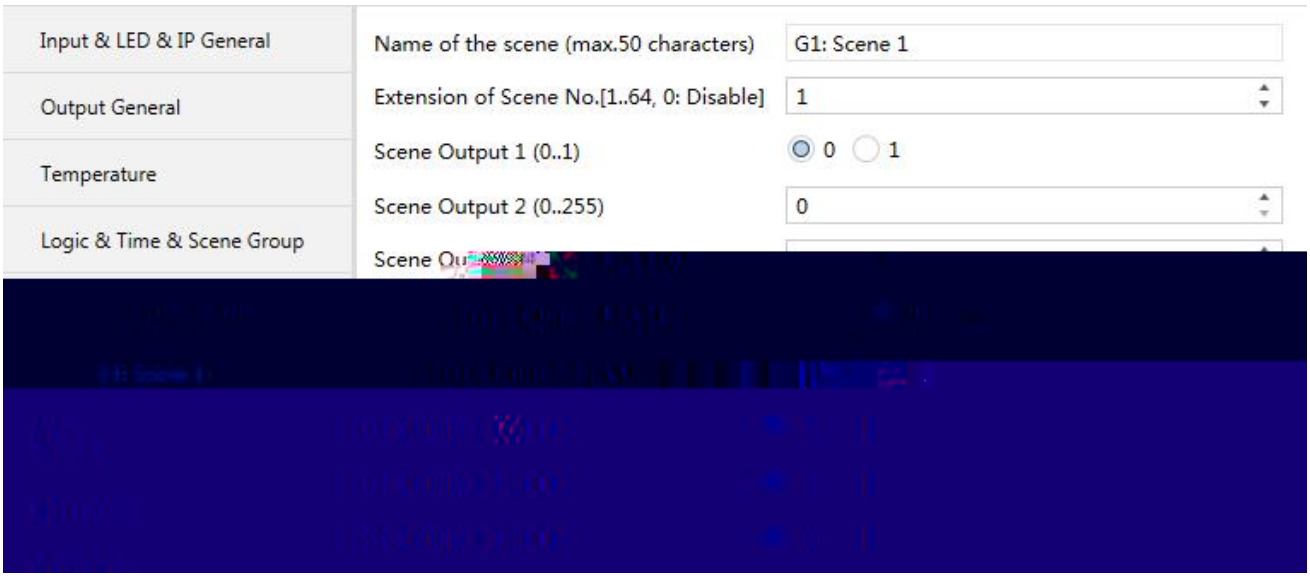
“ ”

“ Scene Group X ” 5.34 8

8 k



“ ”



“ ”

x k □

x □ : 0..36000.

0 □ k

□ 50 k

“ ”

k □0..64 □0= k

“ ”

□ x k 1bit 0..1/1byte 0..255/ 1byte 0..100%

k

k

“ ”

“ ” “ ”

“ ” “ ” k

Number	Name	Object Function	Description	Group Ad	C	R	W	T	U	Data Type	Pr
ority	271	Temperature	Actual temperature output		2 bytes	C	R	-	T	-	temperature (°C)	
ow	272	Temperature	Local sensor error output		1 bit	C	R	-	T	-	alarm	
ow	274	Temperature	Temp.correction(-128..127)*0.1		1 byte	C	-	W	-	-	counter pulses (-128..12	
) Low	275	General	In operation		1 bit	C	R	-	T	-	switch	
273	Temperature	External sensor			2 bytes	C	-	W	T	U	temperature (°C)	Low

“ ”

PT1000 k

k PT1000 k

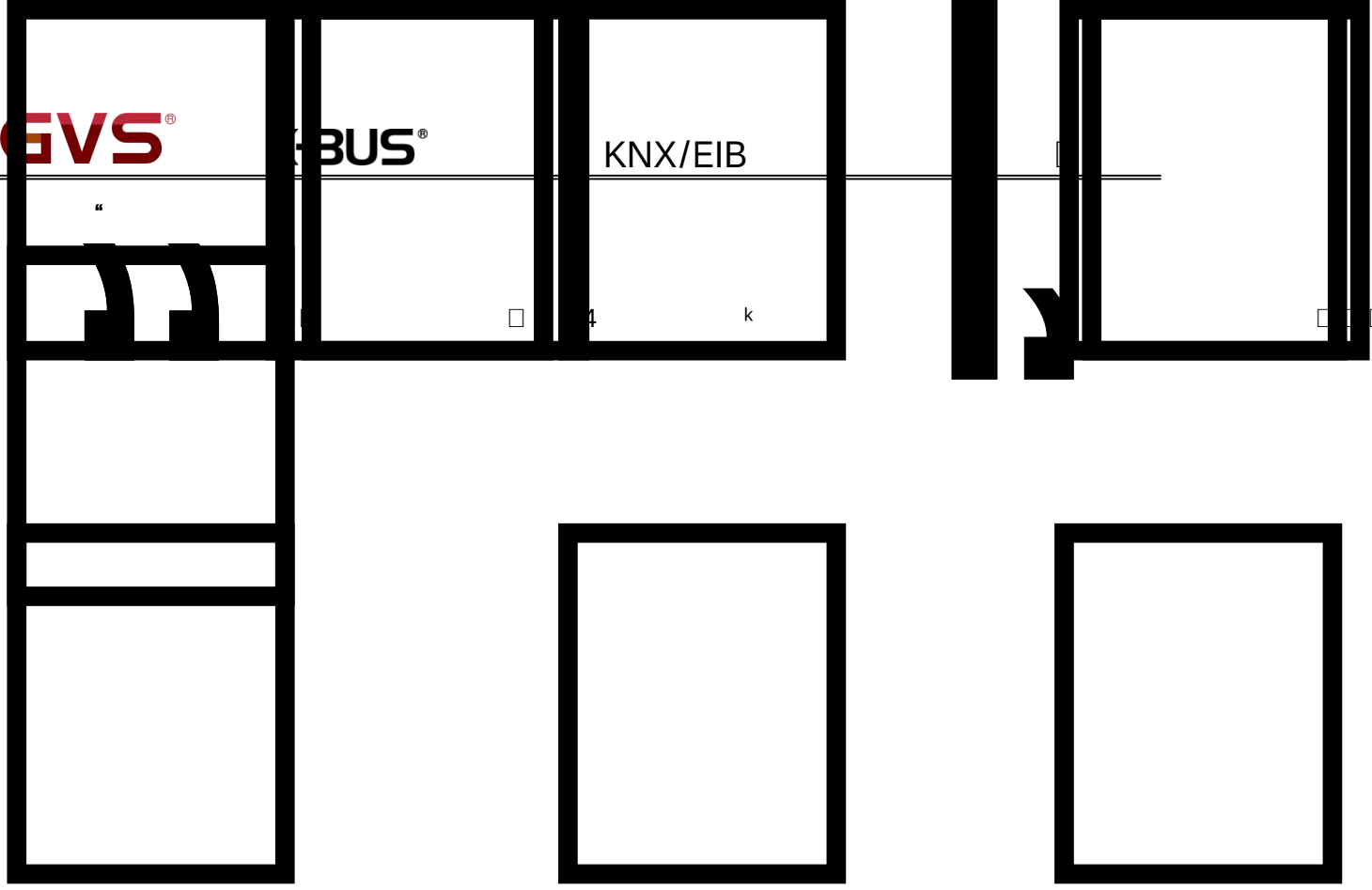
k

k

PT1000 k

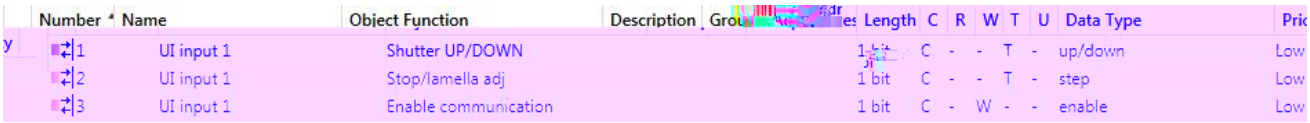
“ ”

1



“ ”

6.5 k



Number	Name	Object Function	Description	Group Addresses	Length	C	R	W	T	U	Data Type	Priority
1	UI input 1	Shutter UP/DOWN			1 bit	C	-	-	T	-	up/down	Low
2	UI input 1	Stop/lamella adj			1 bit	C	-	-	T	-	step	Low
3	UI input 1	Enable communication			1 bit	C	-	W	-	-	enable	Low

“ ”

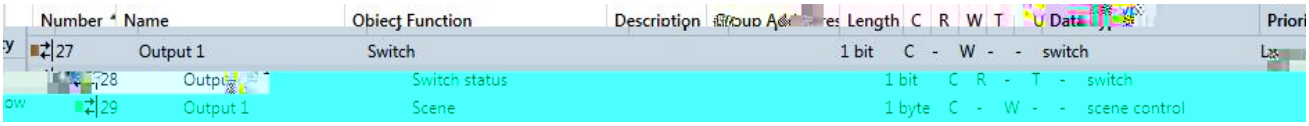
/ □		“1” □		□	“0” □ k
/ □ k		“1” □ /		□	“0” □ /

“ ”



Number	Name	Object Function	Description	Group Addresses	Length	C	R	W	T	U	Data Type	Priority

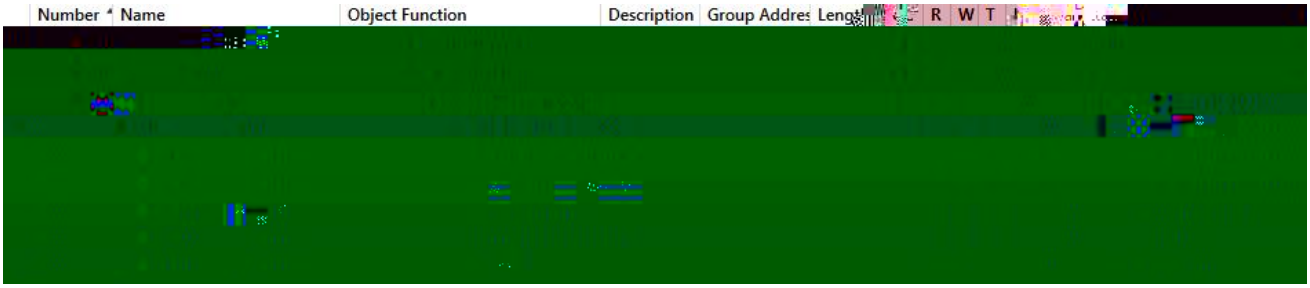
22	LED X	Status	1bit/1byte	C,W	1.001 GŔ	j"



□ “1” □ “0” □ □ k					
k k “After read only”□ □ □ “After change and after read”□ □ k					
8bit k k 8bit k 8bit ( )□FXNNNNNN F: “0” □ “1” □ X□0□ NNNNNN□ □0...63□ k □					

0 1 2 ... 63	1 2 3 ... 64
128 129 130 ... 191	1 2 3 ... 64

1~64□ 0~63 k 1□ “Scene” 0 k



“0” □ / □ “1”□ / k

‘0’——

‘1’——

□ “0” “1” □ k

Shutter □ □ “0” □ □ “1” □

k

Blind □ □ k

‘0’—— /

‘1’—— /

`

□ / k “Shutter” □

□ □ □ “Louvre position[0...100%]” □

k

‘0%’——

..... ——

‘100%’——

`

“Shutter” □ □ □ □ □□□□□□□□□□

..... ——

‘100%’——

“Shutter” □ k

‘0%’——

..... ——

‘100%’——


Number
Object Function
Switch
DIM (TRIAC) Output 26
Switch status
Brightness status
Scene
Data Type

NNNNNN□ □0...63□ k

1~64 k “Scene” 0~63 k 1□

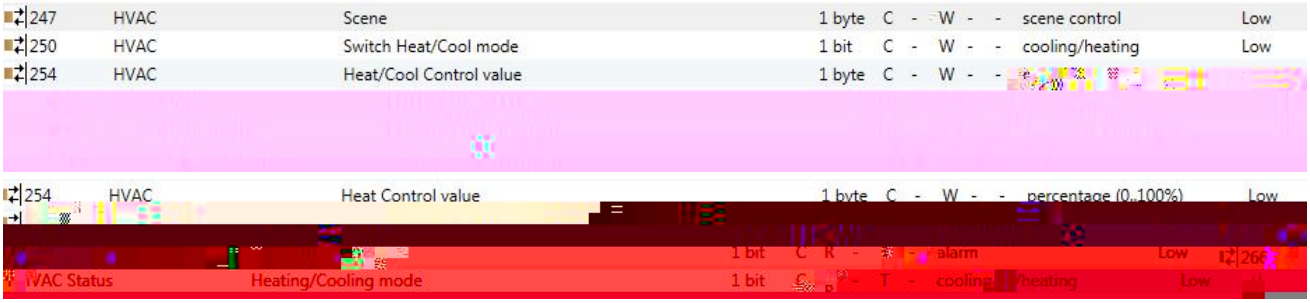
“Scene” 0 1 k □

0 1 2 ... 63	1 2 3 ... 64
128 129 130 ... 191	1 2 3 ... 64

□

Number	Name	Object Function	Description	Group Addres	Length	C	R	W	T	U	Data Type	Priority
250	HVAC	Switch Heat/Cool mode			1 bit	C	-	W	-	-	cooling/heating	Low
251	HVAC mode	Comfort mode			1 bit	C	-	W	-	-	enable	Low
252	HVAC mode	Night mode			1 bit	C	-	W	-	-	enable	Low
253	HVAC mode	Frost/heat protection mode			1 bit	C	-	W	-	-	enable	Low
254	HVAC mode	Standby mode			1 bit	C	-	W	-	-	enable	Low
262	HVAC Status	Comfort mode			1 bit	C	R	-	T	-	enable	Low
263	HVAC Status	Night mode			1 bit	C	R	-	T	-	enable	Low
264	HVAC Status	Frost/heat protection mode			1 bit	C	R	-	T	-	enable	Low
265	HVAC Status	Standby mode			1 bit	C	R	-	T	-	enable	Low
270	Output setpoint	Instantaneous setpoint			2 bytes	C	R	-	T	-	temperature (°C)	Low
250	HVAC	Heat mode enable			1 bit	C	-	W	-	-	enable	Low
251	HVAC mode	HVAC mode			1 byte	C	-	W	-	-	HVAC mode	Low
258	HVAC	Cool mode enable			1 bit	C	-	W	-	-	enable	Low
262	HVAC Status	HVAC mode			1 byte	C	R	-	T	-	HVAC mode	Low
247	HVAC	Scene			1 byte	C	-	W	-	-	scene number	Low

□



HVAC □ k

1~64□ 0~63 k 1□ 0 k

/ □ □ □ “ 0 ” □ “ 1 ” k

/ □ k “ 1 ” □ □ 0 k

4 1bit (251,252,253,254) 1 1byte (HVAC mode) k

1bit □ 251□ k 252□ k 253□ k 254□ k

□ “ 1 ” □ “ 0 ” k □4 1bit □

(Frost/heat protection mode)> (Comfort mode)= (Night mode)= (Standby mode)□ 251 ！

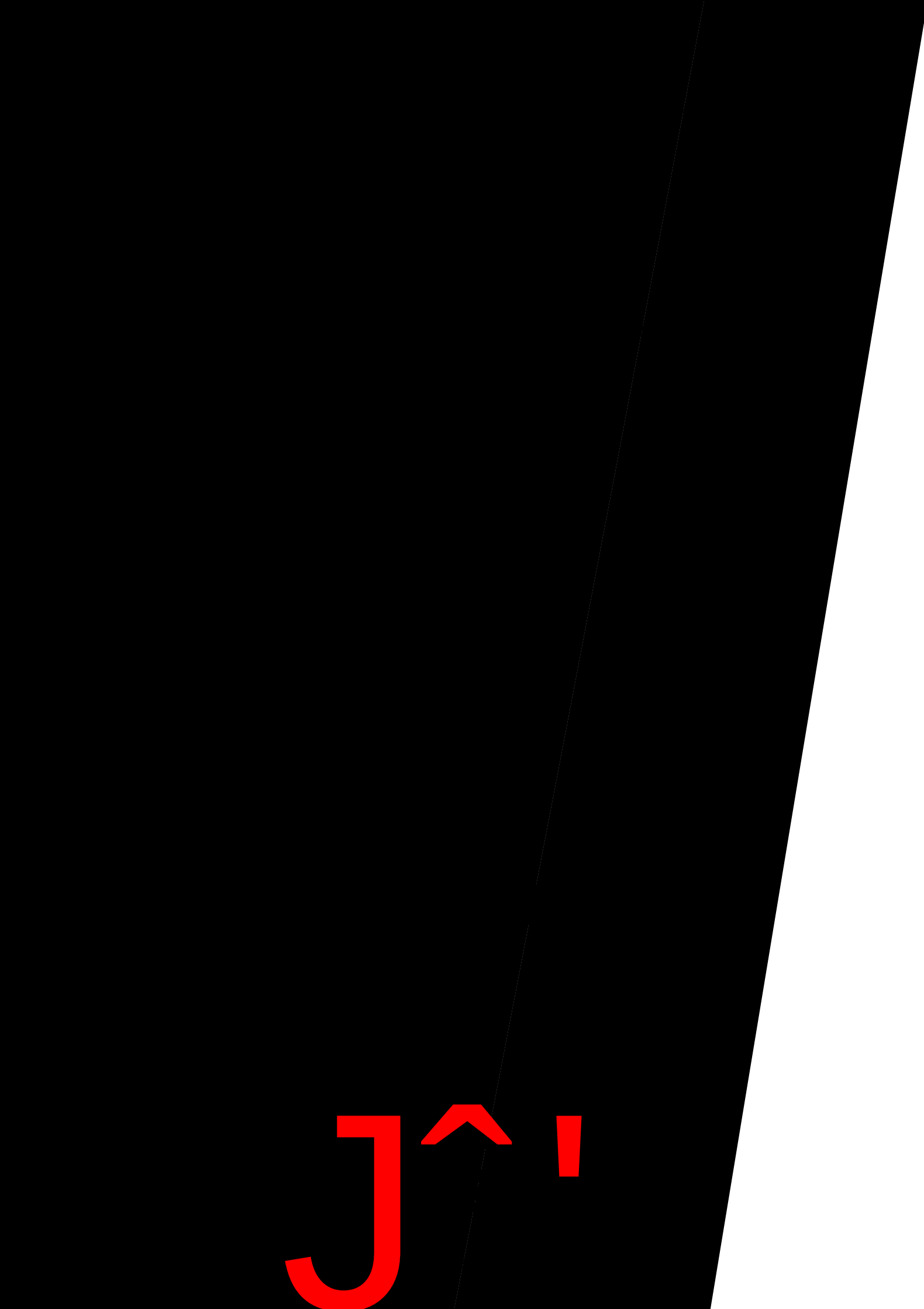
252 253 □ □ k

1byte □ □no:0:

1:

2:

3:


J^'

k

(254) □ □ 250 (Switch

Heat/ Cool mode□ k

1bit 1byte□ k

□ □ k

□ k □ k

“0”——

“1”——

1 □ □

Number	Name	Object Function	Description	Group Addres	Length	C	R	W	T	U	Data Type	Priority
231	1Level-Fan	Fan speed			1 bit	C	-	W	-	-	switch	Low
235	1Level-Fan	Status Fan ON/OFF			1 bit	C	R	-	T	-	switch	Low
240												

“ ” □ □

“ ” □ □

Number	Name	Object Function	Description	Group Addr	Length	C	R	W	T	U	Data Type	Priority
230	Multi-Fan	Fan speed										Low
235	Multi-Fan	Status Fan ON/OFF			1 bit	C	R	-	T	-	switch	

“ ” □ □

k

k “ Object value for Status Fan speed 1/2/3 [1..255] ”□

“0”□ k

k

1 k

“0”—— 1

“1”—— 1

237

237

k

□ k k □

□ □ k

□ □ □ □

k

“0□Auto/1=Cancel”□

“0”——

“1”——

“1□Auto/0=Cancel□

“0”——

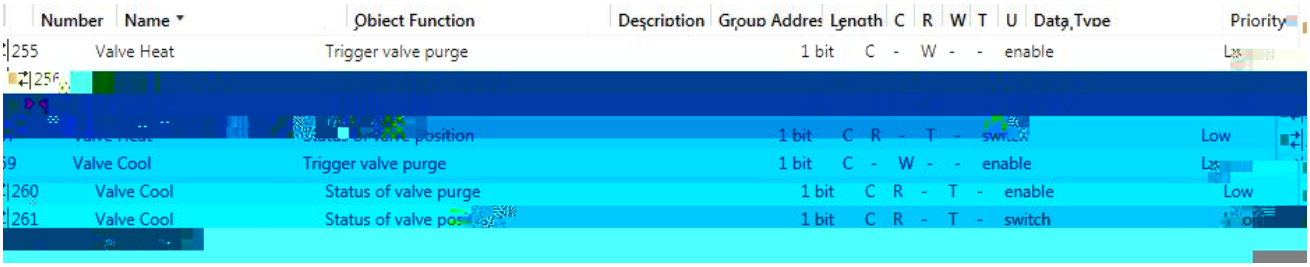
“1”——

□

230□Fan speed

239

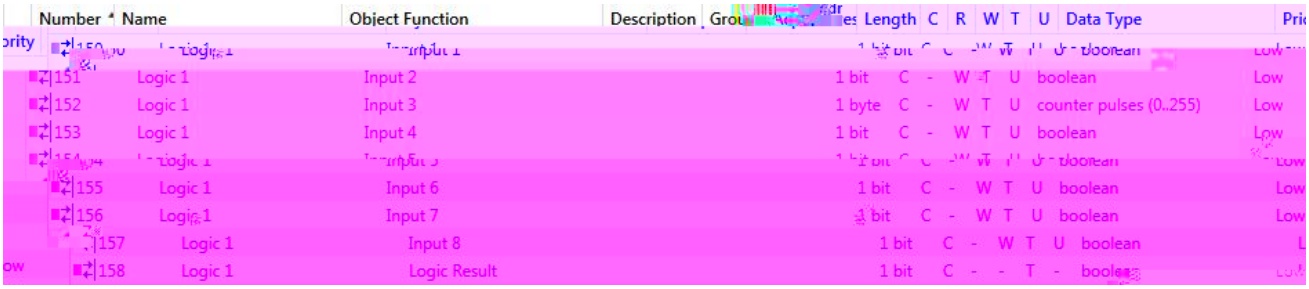
“1”□ 1 □ “0”□ k 1 □ 1 “Fan with limitation 1” k “0”—— 1 “1”—— 1 □ 1 k					
242					
242					
242					
k □ “Behaviour on Forced operation is” / “Limitation on forced operation” □ □ 1-4 k “0□Force/1=Cancel”□ “0”—— “1”—— “1□Force/0=Cancel”□ “1”—— “0”——					



Number	Name	Object Function	Description	Group Addres	Length	C	R	W	T	U	Data Type	Priority
255	Valve Heat	Trigger valve purge			1 bit	C	-	W	-	-	enable	Lo
256												
		position			1 bit	C	R	-	T	-		Low
259	Valve Cool	Trigger valve purge			1 bit	C	-	W	-	-	enable	Lo
260	Valve Cool	Status of valve purge			1 bit	C	R	-	T	-	enable	Low
261	Valve Cool	Status of valve pos			1 bit	C	R	-	T	-	switch	

□ k □ 0%□ □□ □ k					
248 k					
□ □ k “ 0 ”ˆ ˆ “ 1 ”ˆ ˆ					
k □ k “ 0 ”ˆ ˆ “ 1 ”ˆ ˆ					
k “0”—— “1”——					

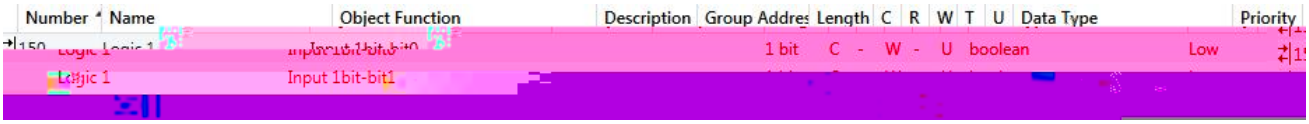
“ ”



Number	Name	Object Function	Description	Length	C	R	W	T	U	Data Type	Priority
151	Logic 1	Input 2		1 bit	C	-	W	T	U	boolean	Low
152	Logic 1	Input 3		1 byte	C	-	W	T	U	counter pulses (0..255)	Low
153	Logic 1	Input 4		1 bit	C	-	W	T	U	boolean	Low
155	Logic 1	Input 6		1 bit	C	-	W	T	U	boolean	Low
156	Logic 1	Input 7		1 bit	C	-	W	T	U	boolean	Low
157	Logic 1	Input 8		1 bit	C	-	W	T	U	boolean	L
158	Logic 1	Logic Result		1 bit	C	-	-	T	-	boole	

Input x k					
k					

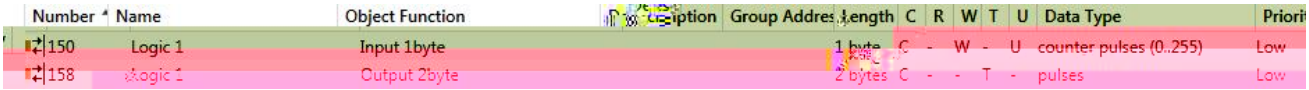
“ ”



“ 2x1bit --> 1x2bit ” □ 2 1bit 2bit □ Input bit1=1, bit0=0--> Output 2bit=2



“ 8x1bit --> 1x1byte ” : 8 1bit 1byte □ Input bit2=1, bit1=1, bit0=1, 0--> Output 1byte=7 k

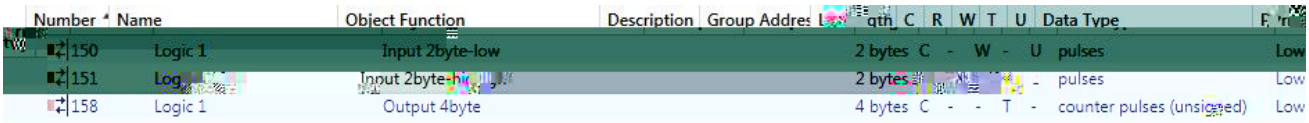


“ 1x1byte --> 1x2byte ” □ 1byte 2byte □ Input 1byte=125--> Output 2byte=125,

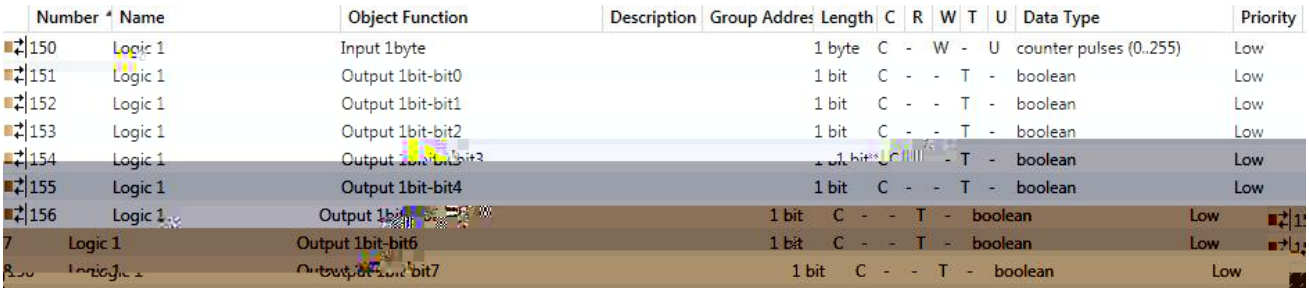
□ k



“ 2x1byte --> 1x2byte ” □ 2 1byte 2byte □ Input 1byte-low = 255 ($FF), Input 1byte-high = 100 ($64) --> Output 2byte = 25855 ($64 FF)

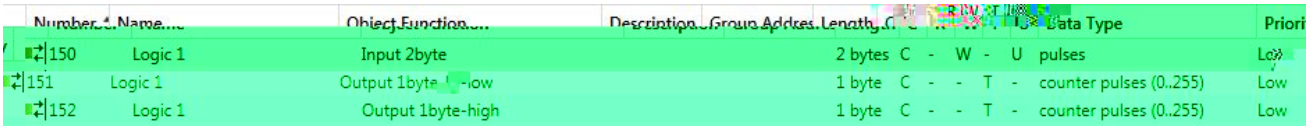


“ 2x2byte --> 1x4byte ” □ 2 2byte 4byte □ Input 2byte-low = 65530 ($FF FA), Input 2byte-high = 32768 ($80 00)--> Output 2byte = 2147549178 ($80 00 FF FA)



“ 1x1byte --> 8x1bit ” □ 1 1byte 8 1bit □ Input 1byte=200 --> Output bit0=0, bit1=0, bit2=0,

bit3=1, bit4=0, bit5=0, bit6=1, bit7=1



“ 1x2byte --> 2x1byte ”

/ □

22-25 □ □ □

□ □3 15&16&17□2 15&16□

1 15□ □ 3 □ 15&16&17

□ □ □... -- 1 -- 2 -- 3 -- -- ...□ k

□ k □ 15&16&17

□ k

0-10V 28 □ 28 □... -- 1 -- 2 -- 3 -- -- ...□ □

□ 18 □ k 0-10V 29 □

k 19 □ k 0-10V 30 □

k

□ / □ / □□

□ k

□ 26-30□ k □ k

□ □ k