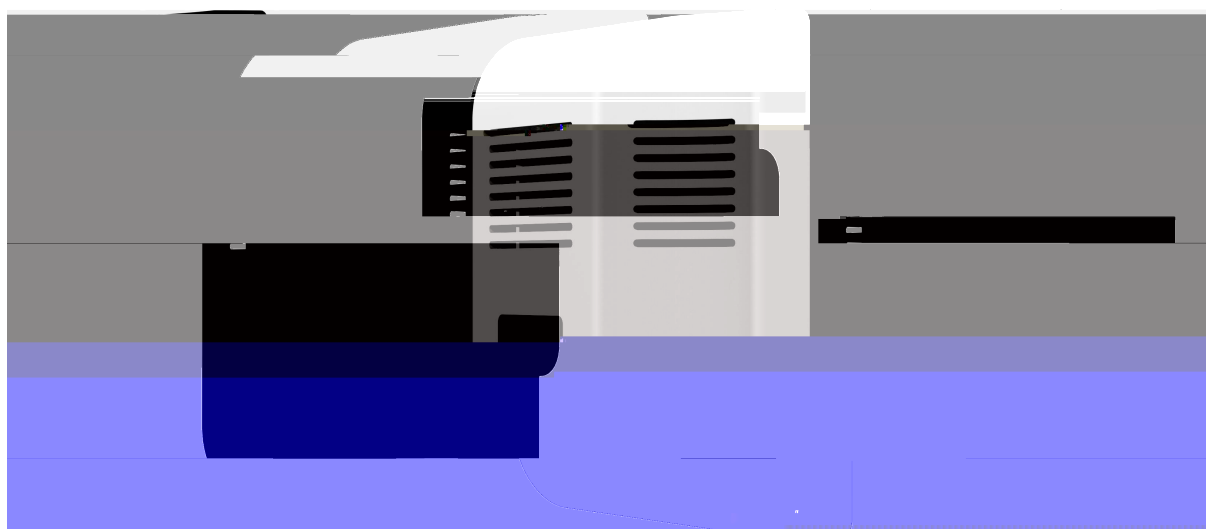
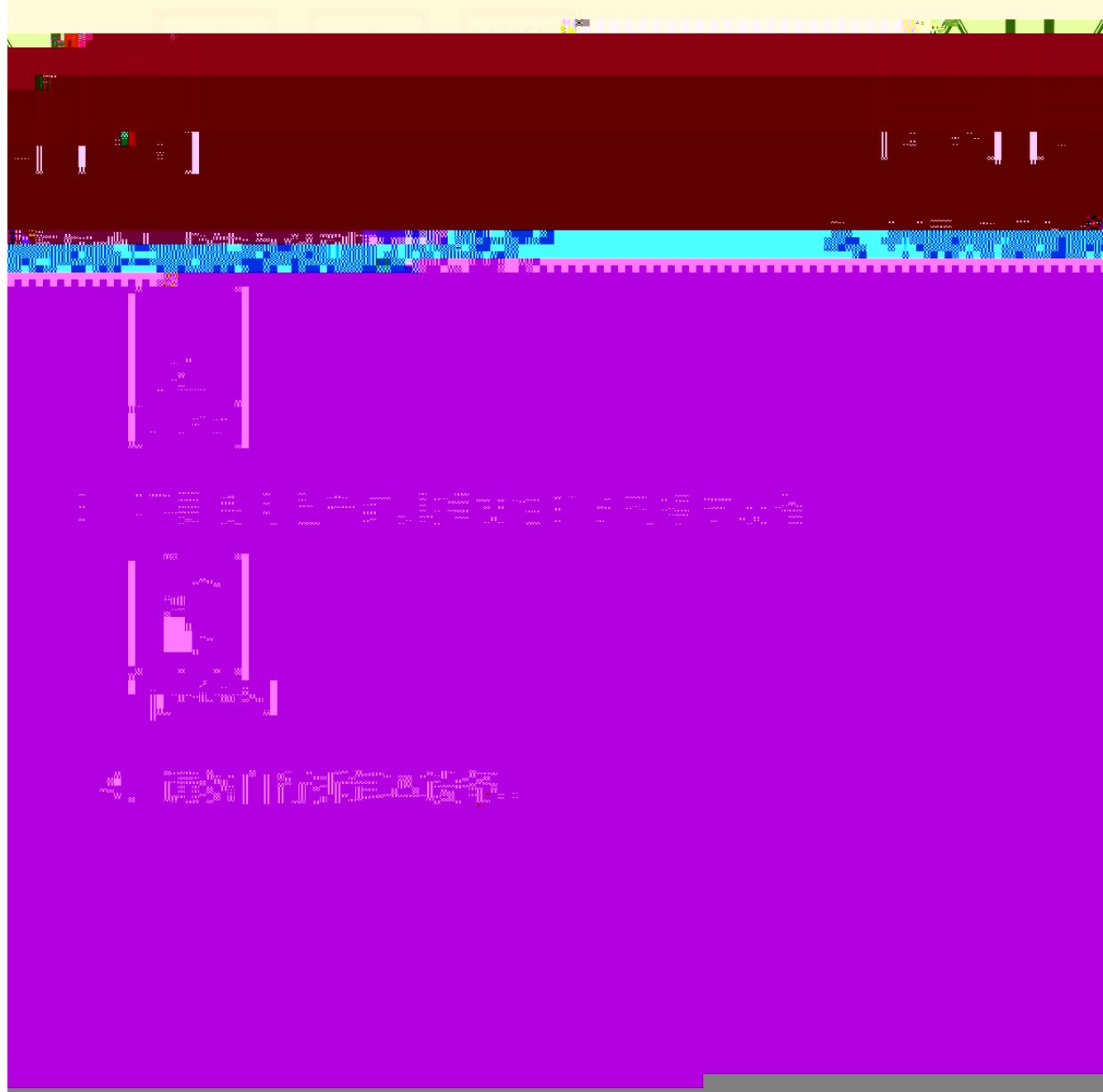


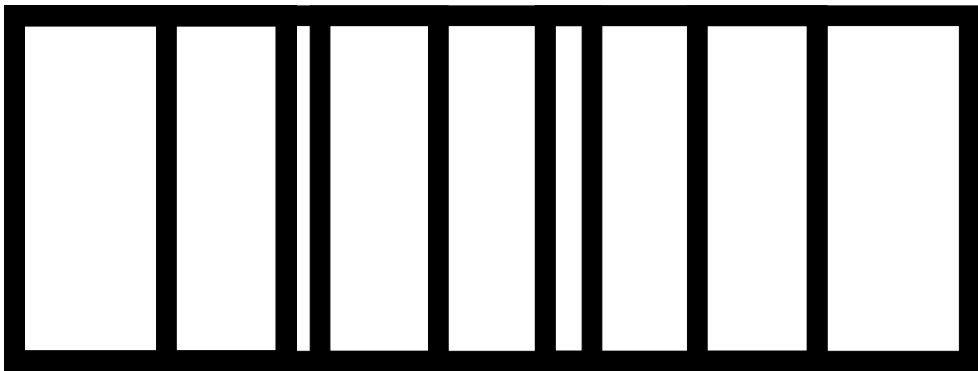
KEULSI



注意事项

1、请远离强磁场、高温、潮湿等环境；







KNX/EIB

KNX

V2

KNX

V2

PM2.5/PM10 VOC CO2 AQI

k

PM2.5 ! VOC ! CO2

KNX

k

KNX

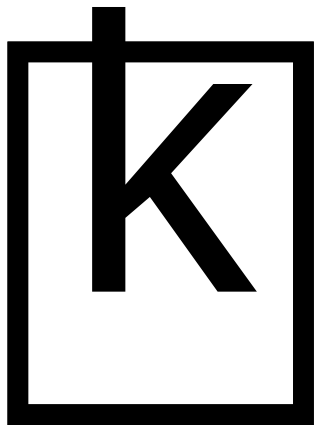
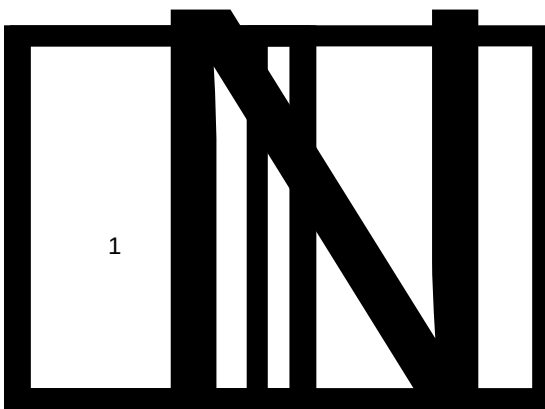
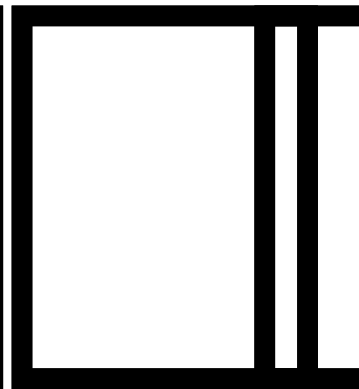
V2

KNX

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q&N~ VE ©D 9





KNX/EIB

KNX

V2

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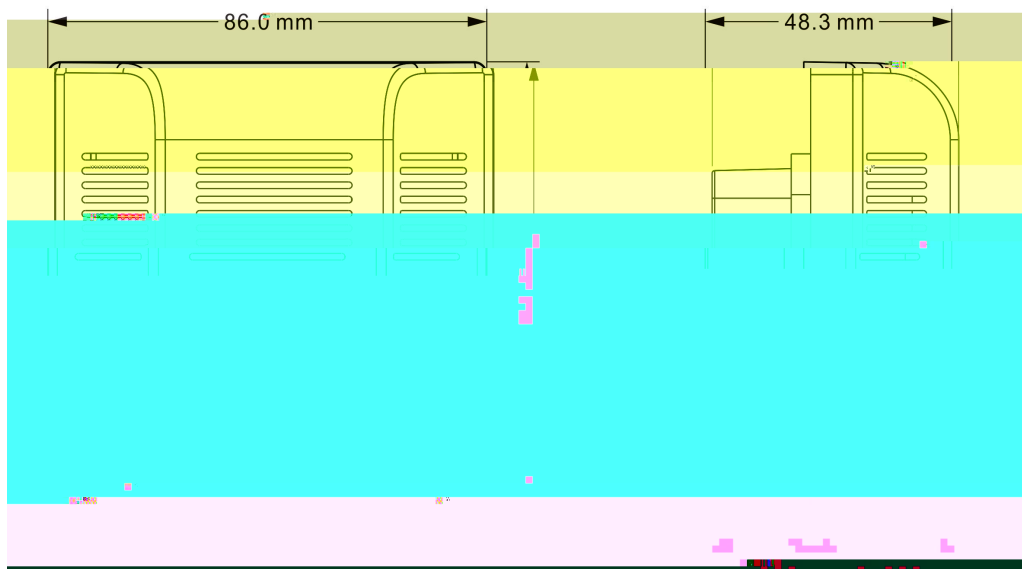
•

k

k

k

	21-30V DC
	<3.0mA/24V DC, <2.6mA/30V DC <80mW
	12-30V DC
	<73mA/12V DC, <34mA/24V DC <26mA/30V DC <0.9W
KNX	/
	/
LED	
	-5°C...45°C ±1°C
	0.1°C
	10...90% ±4.5% 0...10% / 90...100% ±8%
	0.1%
	0-999 µg/m³
	50%(t'=0.3µm) 98%(t'≥0.5 µm) ≤ 10s
	0-9.99 mg/m³ ±10%
	400ppm~2000ppm ®40ppm
	5 °C... + 45 °C
	– 25 °C ... +55 °C – 25 °C ... +70 °C
	<93%
80 86	
86 Ø 86 Ø 48.3mm	
0.15KG	



F LED

4

F

3 KNX

4



KNX/EIB

KNX

V2

PM2.5 PM10 AQI

VOC CO2



KNX/EIB

KNX

V2

VOC

k

CO2

k

PM2.5 ! VOC ! CO2

3 k

1bit/1byte

k

5

AQI

1bit !

AQI

1bit

1bit

1bit

VOC

1bit

1bit

k 6

k

k

k

“General settings”

5.2

k

--- Air Quality Sensor, 6 in 1 > General > General settings

General	After voltage recovery or download	
General settings	VOC stability time	Fixed 2 mins
+ AQI	CO2 stability time	Fixed 2 mins
+ Temperature	PM2.5/PM10 stability time	Fixed 10s
+ Humidity	Request external sensor after	Fixed 2 mins
+ VOC	Display PM2.5	☐ No ☒ Yes
+ CO2	Display PM10	☐ No ☒ Yes
Version	Display AQI level	☐ No ☒ Yes
Log on	Display temperature	☐ No ☒ Yes
	Display humidity	☐ No ☒ Yes
	Display VOC	☐ No ☒ Yes
	Display CO2	☐ No ☒ Yes
	Warning level [1..10]	40
	Alarm cycle [2..255]	2
	Alarm on proportion [1..100]	50

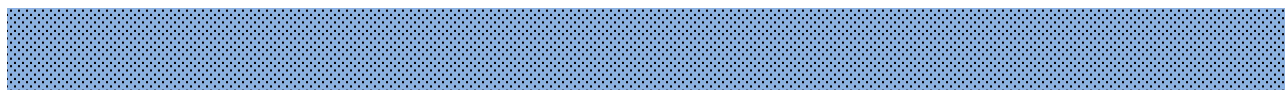
5.2 “General settings”



VOC

k

k



CO2

k

k

KNX/EIB

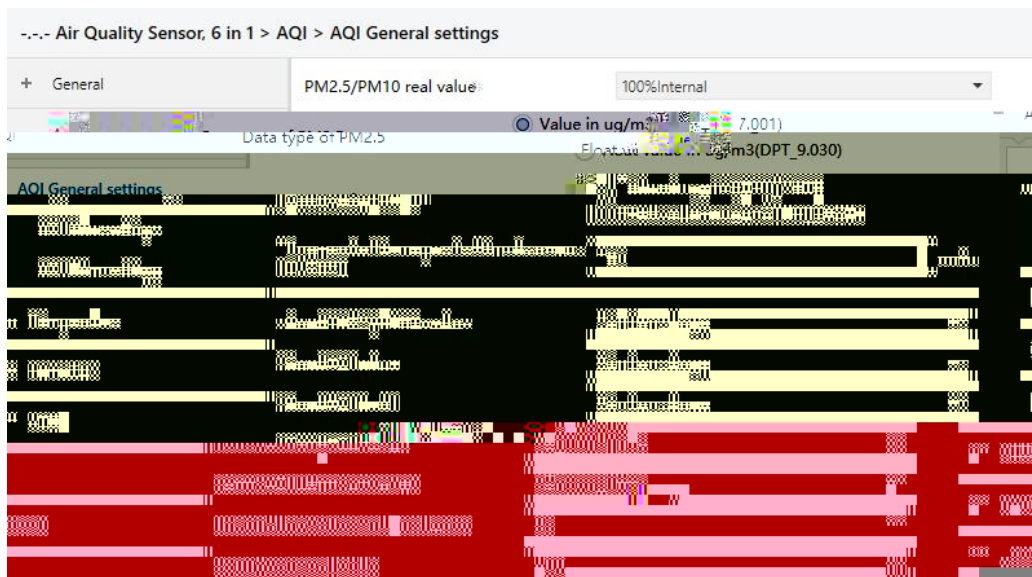
KNX

V

“AQI General settings”

5.3.1

k



5.3.1 “AQI General settings”



PM2.5/PM10

KNX

k

“40%Internal+60%External”

PM2.5/PM10

A

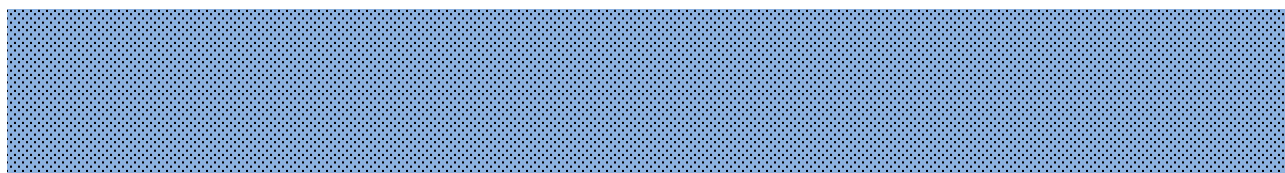
40%

B

60%

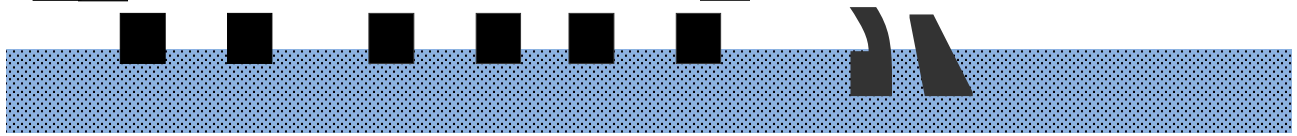
= A×40% + B×60%

k



PM2.5 ! PM10

k



35 ! 36 75 ! 76 115 ! 116 150 ! 151 250 250 k 0

AQI

2S

“No send” AQI k

“Send on γ ” AQI OM $\ll$



“Send cyclically” AQI OM $\ll$

“Send value Cyclically” k



6



KNX/EIB

KNX

V2

Level"

k

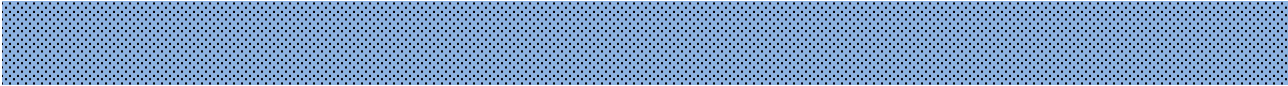
"Send Cyclically"

"AQI Value settings"

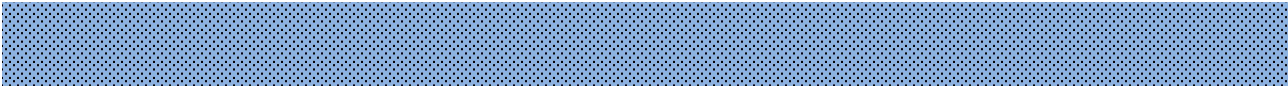
"Send

value Cyclically"

k



k



k



KNX/EIB

KNX

V2

“AQI Value settings”

☐ ☐ ☐ ☐ ☐

GVS

KNX

KNX

KNX

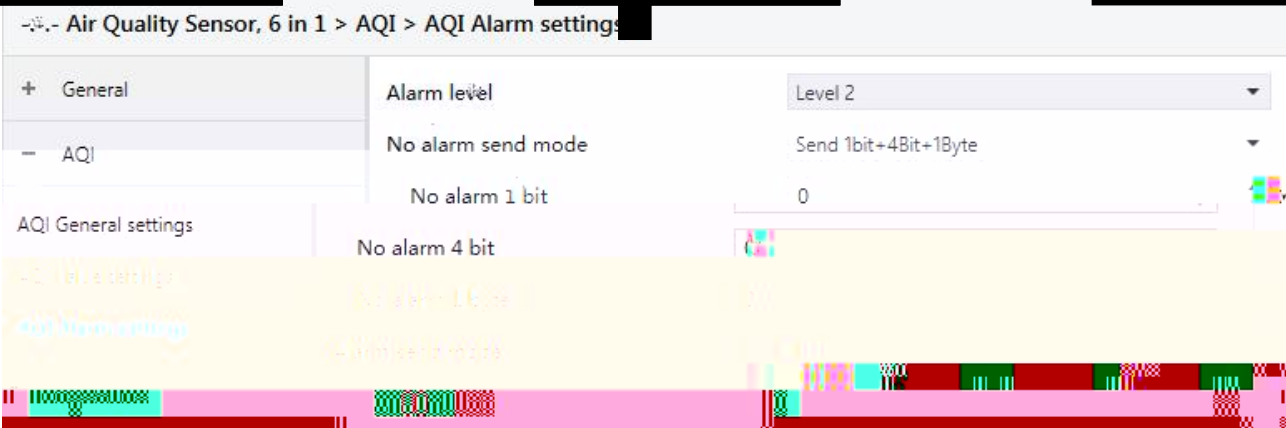
V2

"AQI Alarm settings"

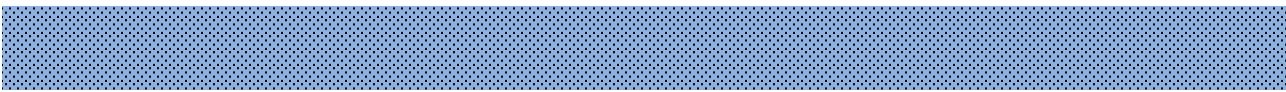
5.3.3

AQI

k



5.3.3 "AQI Alarm settings"



AQI

"Alarm send mode"

"No alarm send mode"

k

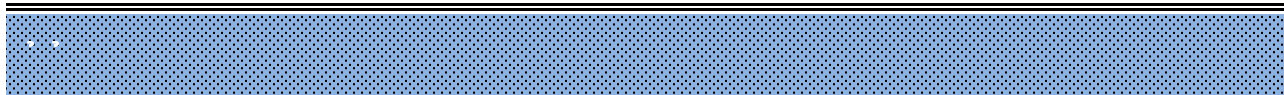
k



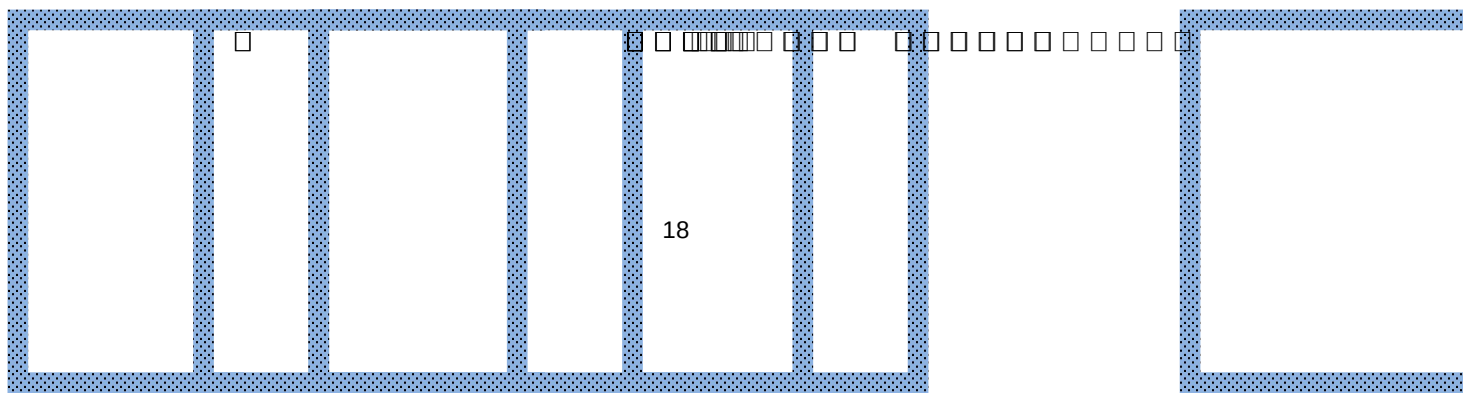
KNX/EIB

KNX

V2



k





KNX/EIB

KNX

V2

“Humidity settings”

5.5 k

--- Air Quality Sensor, 6 in 1 > Humidity > Humidity settings

+ General	Humidity real value	100%External
+ AQI	Internal humidity correction [-30..30]	0 %
Temperature	Time period for request external sensor [0..255]	10 min
Humidity	Send humidity value	Send on change
Humidity settings	Send on change	1
VOC	Humidity threshold value lower<-->middle [1..99]	20 %
CO2	Humidity threshold value medium<-->upper [1..99]	60 %
Ventilation	Humidity hisys time for switchover level [10..50000]	10 s
Logic	Lower send mode	Send 18bit
	Lower 1 bit	0
	Medium send mode	Send 1bit+48bit

5.5 “Humidity settings”



KNX

k

“40%Internal+60%External”

A

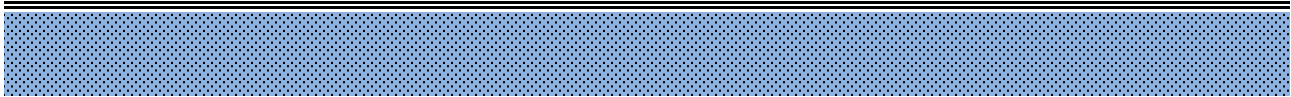
40%

B

60%

$$= A \times 40\% + B \times 60\%$$

k



k

=

+

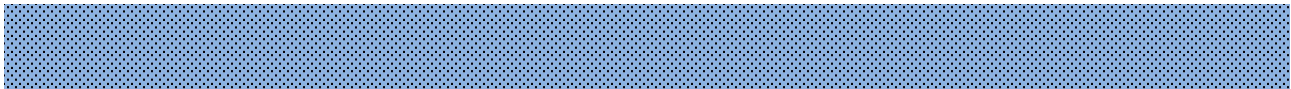
k

100%external

k



k



k

“No send”

k

“Send on change”

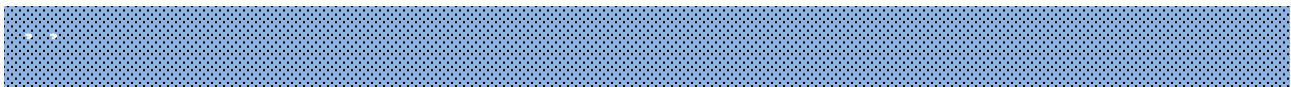
k

“Send cyclically”

k



k



k

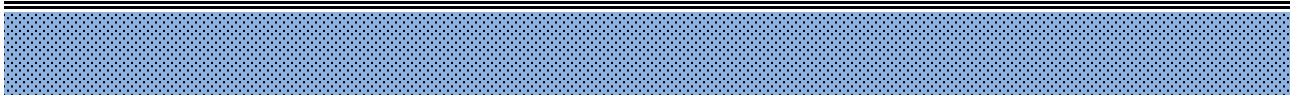




KNX/EIB

KNX

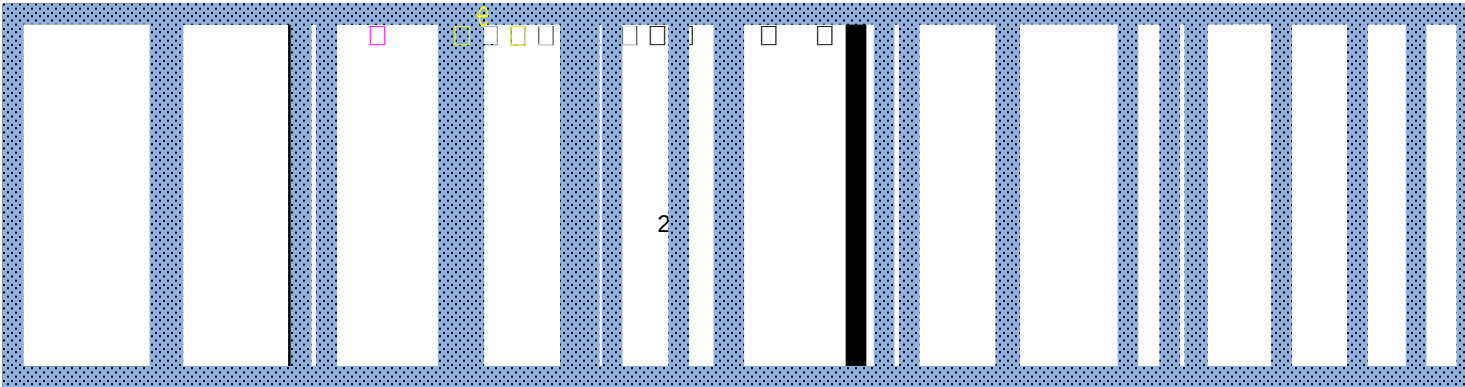
V2



k

0% Humidi g

3 H 0% w





N EIB

KNX

V2

“No send” ၎ ၏ VOC

k

“Send on change”

VOC

"CO2 settings"

5.7 k

--- Air Quality Sensor, 6 in 1 > CO2 > CO2 settings

General	CO2 alarm value [400..2000]	700	ppm
AQI	CO2 hysteresis value [100..500]	100	ppm
Temperature	Data type of CO2	☒ Value in ppm(DPT_7.001) ☐ Float value in ppm(DPT_9.008)	
Humidity	Send CO2 value	Send on change	
	Send on change	5	
	No alarm send mode	Send 1Bit	
	No alarm 1 bit	0	
settings	Alarm send mode	Send 4Bit	
	Alarm 4 bit	0	

5.7 "CO2 settings"

CO2 k

CO2 k

700 100 700ppm 600

k

CO2 k

CO2 k

“No send”

CO2

k

“Send on change”

CO2

k

“Send cyclically” CO2

k



CO2

CO2

k



CO2

k



CO2

k



CO2

1Bit

k



CO2

4Bit

k



CO2

1Byte

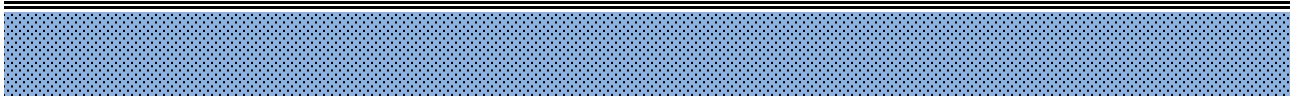
k



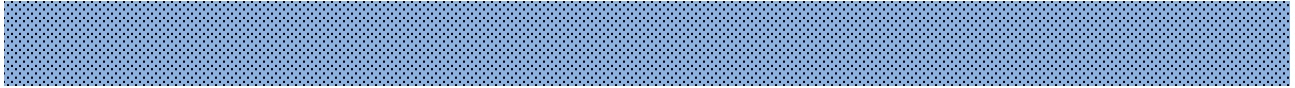
KNX/EIB

KNX

V2



k



k



1bit

k

k

0

k



k



k

“Bus”

k



PM2.5

VOC

k

PM2.5

VOC

k



KNX/EIB

KNX

V2

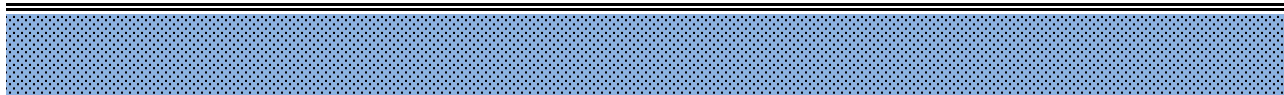
DPT_7.001



KNX/EIB

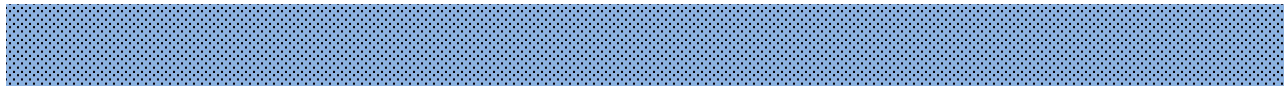
KNX

V2



k

k



k

k

k



k

k



k

CO2

100

450

550

+

350

-

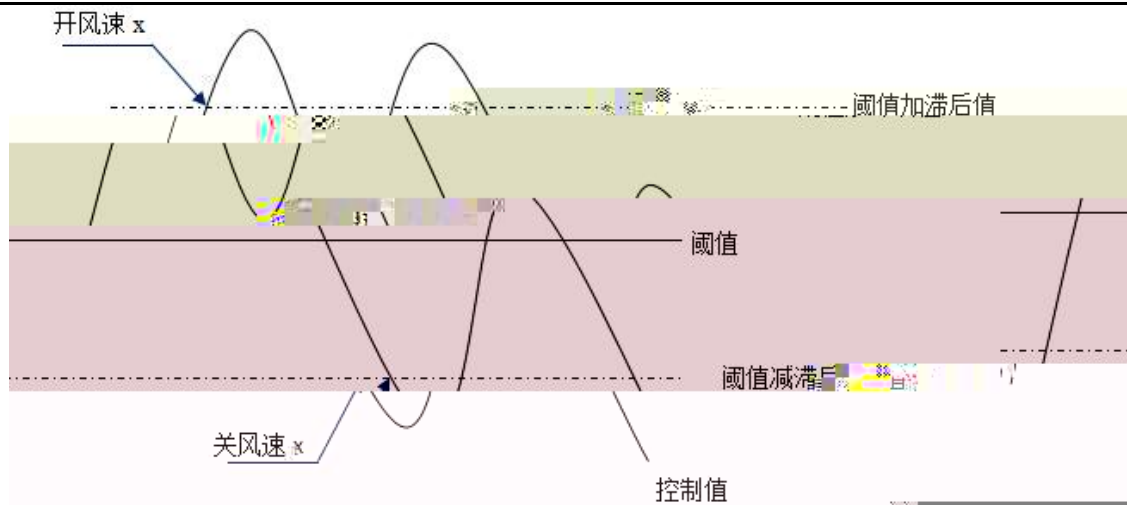
350~550

k

350

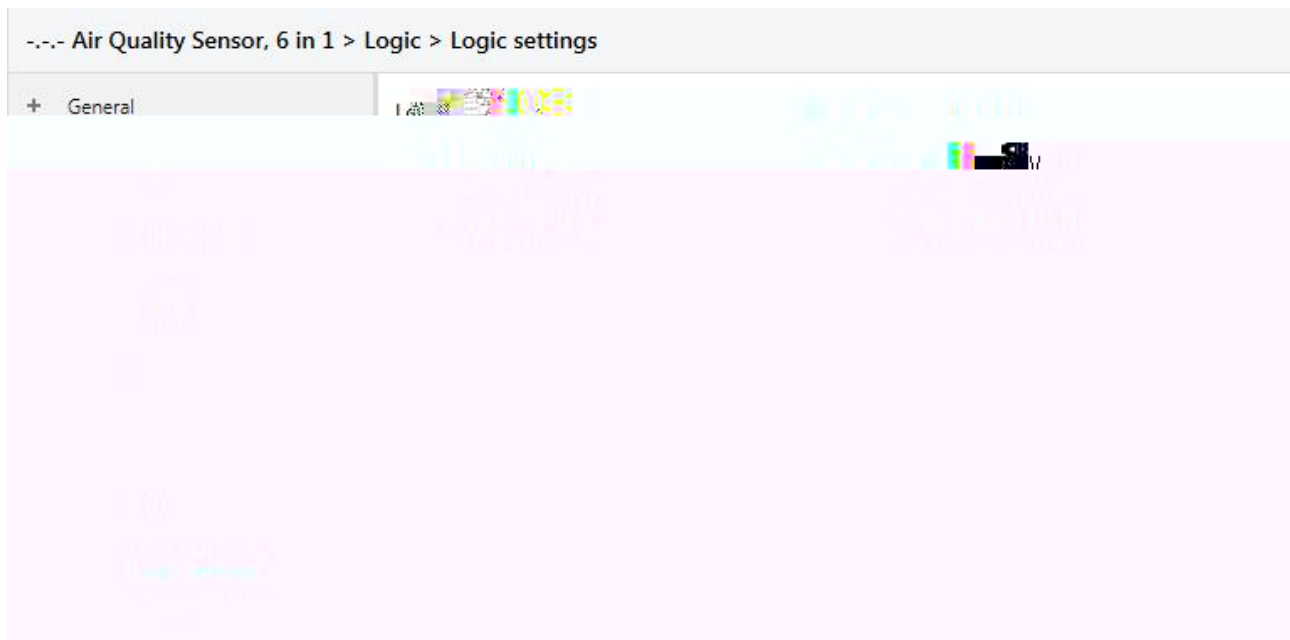
550

k

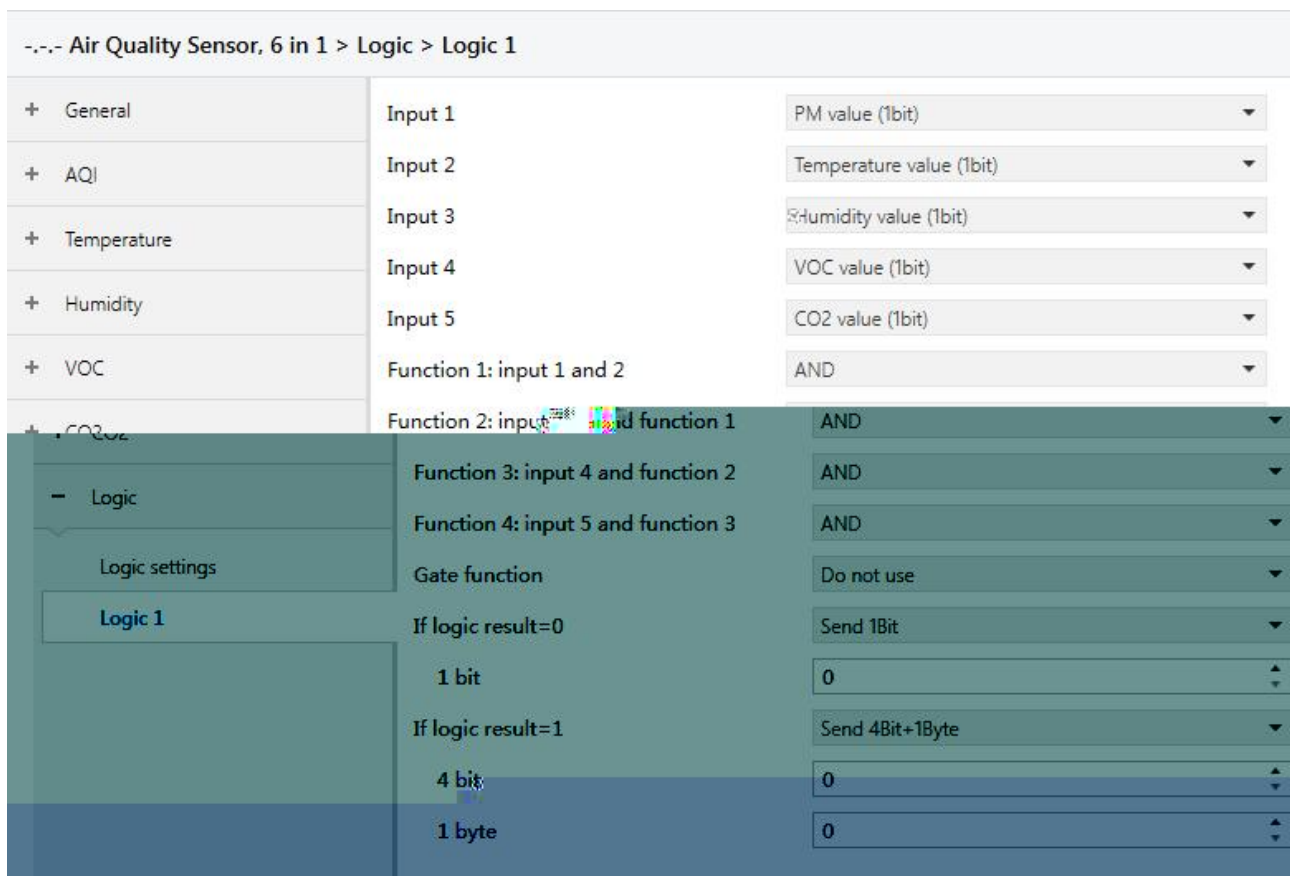


k

5.9 k



5.9(1) "Logic"



5.9(2) "Logic"

k

k

“Do not use”

“PM value (1bit)” 6

“PM alarm value (1bit)” 9

“Temperature value (1bit)” 15

“Humidity value (1bit)” 22

“VOC value (1bit)” 26

“CO2 value (1bit)” 26

“Extern input value” 32/36/40

Logic 1 value 34 1 1bit

Logic2 ! Logic3

logic 2 ! 3

Logic 2 value 38 2 1bit

Logic3

logic 3

KNX/E



"AQI Value settings"					k
"AQI Alarm settings"					k

6.1

	Number	Name	Object Function	Description	Group Address	Value Range	Unit	Data Type	Priority
	26	VOC	VOC value		00000000	00000000		uint16	10
	27	OC	OC output value (bit)		00000000	00000000		bool	10
	28	OC	OC output value (bit)		00000000	00000000		bool	10
	29	OC	OC output value (bit)		00000000	00000000		bool	10

6.4 VOC

DPT

VOC

VOC

k



KNX/EIB

KNX

V2

Number	Name	Description	Group	Unit	Data Type	Priority
34	Logic 1	Logic 1 output value, 1bit	1 bit	C - - T -	switch	Low
35	Logic 1	Logic 1 output value, 4bit	4 bit	C - - T -	dimming control	Low
36	Logic 1	Logic 1 output value, 1byte	1 byte	C - - T -	counter pulses (0..255)	Low
37	Logic 1	Logic 1 output value, 2byte	2 byte	C - - T -	counter pulses (0..65535)	Low
38	Logic 1	Logic 1 output value, 4byte	4 byte	C - - T -	counter pulses (0..255)	Low
39	Logic 1	Logic 1 output value, 8byte	8 byte	C - - T -	counter pulses (0..255)	Low
40	Logic 1	Logic 1 output value, 16byte	16 byte	C - - T -	counter pulses (0..255)	Low
41	Logic 1	Logic 1 output value, 32byte	32 byte	C - - T -	counter pulses (0..255)	Low
42	Logic 1	Logic 1 output value, 64byte	64 byte	C - - T -	counter pulses (0..255)	Low
43	Logic 1	Logic 1 output value, 128byte	128 byte	C - - T -	counter pulses (0..255)	Low
44	Logic 1	Logic 1 output value, 256byte	256 byte	C - - T -	counter pulses (0..255)	Low
45	Logic 1	Logic 1 output value, 512byte	512 byte	C - - T -	counter pulses (0..255)	Low
46	Logic 1	Logic 1 output value, 1024byte	1024 byte	C - - T -	counter pulses (0..255)	Low
47	Logic 1	Logic 1 output value, 2048byte	2048 byte	C - - T -	counter pulses (0..255)	Low
48	Logic 1	Logic 1 output value, 4096byte	4096 byte	C - - T -	counter pulses (0..255)	Low
49	Logic 1	Logic 1 output value, 8192byte	8192 byte	C - - T -	counter pulses (0..255)	Low
50	Logic 1	Logic 1 output value, 16384byte	16384 byte	C - - T -	counter pulses (0..255)	Low
51	Logic 1	Logic 1 output value, 32768byte	32768 byte	C - - T -	counter pulses (0..255)	Low
52	Logic 1	Logic 1 output value, 65536byte	65536 byte	C - - T -	counter pulses (0..255)	Low
53	Logic 1	Logic 1 output value, 131072byte	131072 byte	C - - T -	counter pulses (0..255)	Low
54	Logic 1	Logic 1 output value, 262144byte	262144 byte	C - - T -	counter pulses (0..255)	Low
55	Logic 1	Logic 1 output value, 524288byte	524288 byte	C - - T -	counter pulses (0..255)	Low
56	Logic 1	Logic 1 output value, 1048576byte	1048576 byte	C - - T -	counter pulses (0..255)	Low
57	Logic 1	Logic 1 output value, 2097152byte	2097152 byte	C - - T -	counter pulses (0..255)	Low
58	Logic 1	Logic 1 output value, 4194304byte	4194304 byte	C - - T -	counter pulses (0..255)	Low
59	Logic 1	Logic 1 output value, 8388608byte	8388608 byte	C - - T -	counter pulses (0..255)	Low
60	Logic 1	Logic 1 output value, 16777216byte	16777216 byte	C - - T -	counter pulses (0..255)	Low
61	Logic 1	Logic 1 output value, 33554432byte	33554432 byte	C - - T -	counter pulses (0..255)	Low
62	Logic 1	Logic 1 output value, 67108864byte	67108864 byte	C - - T -	counter pulses (0..255)	Low
63	Logic 1	Logic 1 output value, 134217728byte	134217728 byte	C - - T -	counter pulses (0..255)	Low
64	Logic 1	Logic 1 output value, 268435456byte	268435456 byte	C - - T -	counter pulses (0..255)	Low
65	Logic 1	Logic 1 output value, 536870912byte	536870912 byte	C - - T -	counter pulses (0..255)	Low
66	Logic 1	Logic 1 output value, 1073741824byte	1073741824 byte	C - - T -	counter pulses (0..255)	Low
67	Logic 1	Logic 1 output value, 2147483648byte	2147483648 byte	C - - T -	counter pulses (0..255)	Low
68	Logic 1	Logic 1 output value, 4294967296byte	4294967296 byte	C - - T -	counter pulses (0..255)	Low
69	Logic 1	Logic 1 output value, 8589934592byte	8589934592 byte	C - - T -	counter pulses (0..255)	Low
70	Logic 1	Logic 1 output value, 17179869184byte	17179869184 byte	C - - T -	counter pulses (0..255)	Low
71	Logic 1	Logic 1 output value, 34359738368byte	34359738368 byte	C - - T -	counter pulses (0..255)	Low
72	Logic 1	Logic 1 output value, 68719476736byte	68719476736 byte	C - - T -	counter pulses (0..255)	Low
73	Logic 1	Logic 1 output value, 137438953472byte	137438953472 byte	C - - T -	counter pulses (0..255)	Low
74	Logic 1	Logic 1 output value, 274877906944byte	274877906944 byte	C - - T -	counter pulses (0..255)	Low
75	Logic 1	Logic 1 output value, 549755813888byte	549755813888 byte	C - - T -	counter pulses (0..255)	Low
76	Logic 1	Logic 1 output value, 1099511627776byte	1099511627776 byte	C - - T -	counter pulses (0..255)	Low
77	Logic 1	Logic 1 output value, 2199023255552byte	2199023255552 byte	C - - T -	counter pulses (0..255)	Low
78	Logic 1	Logic 1 output value, 4398046511104byte	4398046511104 byte	C - - T -	counter pulses (0..255)	Low
79	Logic 1	Logic 1 output value, 8796093022208byte	8796093022208 byte	C - - T -	counter pulses (0..255)	Low
80	Logic 1	Logic 1 output value, 17592186044416byte	17592186044416 byte	C - - T -	counter pulses (0..255)	Low
81	Logic 1	Logic 1 output value, 35184372088832byte	35184372088832 byte	C - - T -	counter pulses (0..255)	Low
82	Logic 1	Logic 1 output value, 70368744177664byte	70368744177664 byte	C - - T -	counter pulses (0..255)	Low
83	Logic 1	Logic 1 output value, 140737488355328byte	140737488355328 byte	C - - T -	counter pulses (0..255)	Low
84	Logic 1	Logic 1 output value, 281474976710656byte	281474976710656 byte	C - - T -	counter pulses (0..255)	Low
85	Logic 1	Logic 1 output value, 562949953421312byte	562949953421312 byte	C - - T -	counter pulses (0..255)	Low
86	Logic 1	Logic 1 output value, 1125899906842624byte	1125899906842624 byte	C - - T -	counter pulses (0..255)	Low
87	Logic 1	Logic 1 output value, 2251799813685248byte	2251799813685248 byte	C - - T -	counter pulses (0..255)	Low
88	Logic 1	Logic 1 output value, 4503599627370496byte	4503599627370496 byte	C - - T -	counter pulses (0..255)	Low
89	Logic 1	Logic 1 output value, 9007199254740992byte	9007199254740992 byte	C - - T -	counter pulses (0..255)	Low
90	Logic 1	Logic 1 output value, 18014398509481984byte	18014398509481984 byte	C - - T -	counter pulses (0..255)	Low
91	Logic 1	Logic 1 output value, 36028797018963968byte	36028797018963968 byte	C - - T -	counter pulses (0..255)	Low
92	Logic 1	Logic 1 output value, 72057594037927936byte	72057594037927936 byte	C - - T -	counter pulses (0..255)	Low
93	Logic 1	Logic 1 output value, 144115188075855872byte	144115188075855872 byte	C - - T -	counter pulses (0..255)	Low
94	Logic 1	Logic 1 output value, 288230376151711744byte	288230376151711744 byte	C - - T -	counter pulses (0..255)	Low
95	Logic 1	Logic 1 output value, 576460752303423488byte	576460752303423488 byte	C - - T -	counter pulses (0..255)	Low
96	Logic 1	Logic 1 output value, 1152921504606846976byte	1152921504606846976 byte	C - - T -	counter pulses (0..255)	Low
97	Logic 1	Logic 1 output value, 2305843009213693952byte	2305843009213693952 byte	C - - T -	counter pulses (0..255)	Low
98	Logic 1	Logic 1 output value, 4611686018427387904byte	4611686018427387904 byte	C - - T -	counter pulses (0..255)	Low
99	Logic 1	Logic 1 output value, 9223372036854775807byte	9223372036854775807 byte	C - - T -	counter pulses (0..255)	Low

6.7

					DPT
1 0 k					
k					

6.7