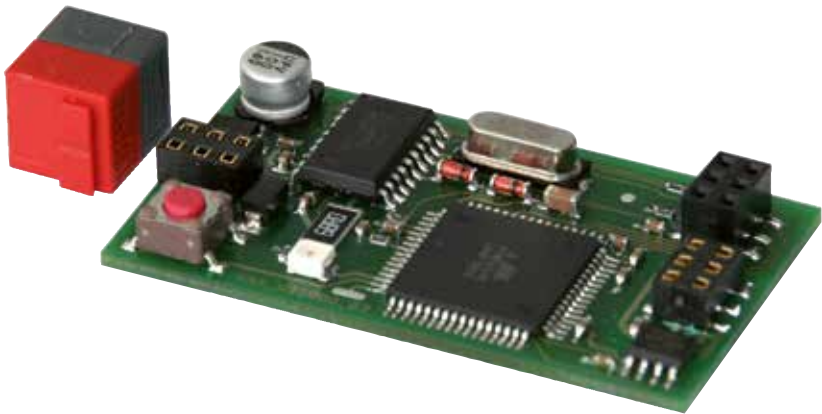




KNX Interface

**For Building Control System WS1000 Color
or WS1000 Style**

Item number 70190



1. Description	3
1.1. Scope of delivery	3
1.2. Technical specifications	3
2. Installation and commissioning	4
2.1. Installation notes	4
2.2. Mounting and connection	4
2.2.1. Fitting the interface to the board of WS1000	5
2.2.2. Connection	5
3. Procedure	6
4. KNX transmission protocol	7
4.0.1. Abbreviations	7
4.1. List of all communications objects	7
5. Parameter setting	24
5.0.1. Malfunctions and error messages	24
5.1. General settings	24
5.2. Wind sensors	25
5.3. Weather data	26
5.3.1. Weather data is transmitted on the bus	26
5.3.2. Weather data is received from the bus	28
5.4. Functional blocks	29
5.4.1. Blocks with 7 objects	29
5.4.2. Blocks with 3 objects	30
5.4.3. Blocks with 2 objects	30
5.4.4. Blocks with 1 object	31



Installation, inspection, commissioning and troubleshooting of the device must only be carried out by a competent electrician.

This manual is amended periodically and will be brought into line with new software releases. The change status (software version and date) can be found in the contents footer. If you have a device with a later software version, please check **www.elsner-elektronik.de** in the menu area "Service" to find out whether a more up-to-date version of the manual is available.

Clarification of signs used in this manual



Safety advice.



Safety advice for working on electrical connections, components, etc.

DANGER!

... indicates an immediately hazardous situation which will lead to death or severe injuries if it is not avoided.

WARNING!

... indicates a potentially hazardous situation which may lead to death or severe injuries if it is not avoided.

CAUTION!

... indicates a potentially hazardous situation which may lead to trivial or minor injuries if it is not avoided.



ATTENTION! ... indicates a situation which may lead to damage to property if it is not avoided.

ETS

In the ETS tables, the parameter default settings are marked by underlining.

1. Description

The **KNX Interface for WS1000** allows for communication between the WS1000 Color or WS1000 Style Control System and the KNX bus system. On the one hand, data of the control unit can be sent to the KNX bus (e. g. weather data). On the other hand, the WS1000 can control drives in the KNX system directly and use sensor data from the KNX system.

Functions:

- **Transmission of data from WS1000 Color/Style to the KNX bus:** date/time, position, weather data
- **Control of actuators** in the KNX bus system by the automatic functions of the WS1000 Color/Style: awnings, blinds, roller shutters, windows, light
- **Transmission of bus data to the WS1000 Color/Style:** sensor data, push-button commands

Configuration is made using the KNX software ETS. The **product file** can be downloaded from the Elsner Elektronik homepage on www.elsner-elektronik.de in the "Service" menu.

1.1. Scope of delivery

- Interface
- KNX bus connector terminal

Interface and bus connector terminal are plugged on the board of the Control System WS1000 Color/WS1000 Style.

1.2. Technical specifications

Mounting	is plugged on the board of the Control WS1000
Dimensions	approx. 53 × 7 × 30 (W × H × D, mm)
Weight	approx. 10 g
Ambient temperature	operation 0...+50°C, storage -30...+70°C, avoid bedewing
Operating voltage	KNX bus voltage
Bus current	max. 5,5 mA, max. 9 mA when programming LED is active
Data output	KNX +/- bus connector terminal
BCU type	own micro controller
PEI type	0
Group addresses	max. 254
Assingments	max. 254
Communication objects	254

The product conforms with the provisions of EU directives.

2. Installation and commissioning

2.1. Installation notes



Installation, testing, operational start-up and troubleshooting should only be performed by an electrician.



DANGER!

Risk to life from live voltage (mains voltage)!

There are unprotected live components within the device.

- VDE regulations and national regulations are to be followed.
 - Ensure that all lines to be assembled are free of voltage and take precautions against accidental switching on.
 - Do not use the device if it is damaged.
 - Take the device or system out of service and secure it against unintentional use, if it can be assumed, that risk-free operation is no longer guaranteed.
-

The device is only to be used for its intended purpose. Any improper modification or failure to follow the operating instructions voids any and all warranty and guarantee claims.

After unpacking the device, check it immediately for possible mechanical damage. If it has been damaged in transport, inform the supplier immediately.

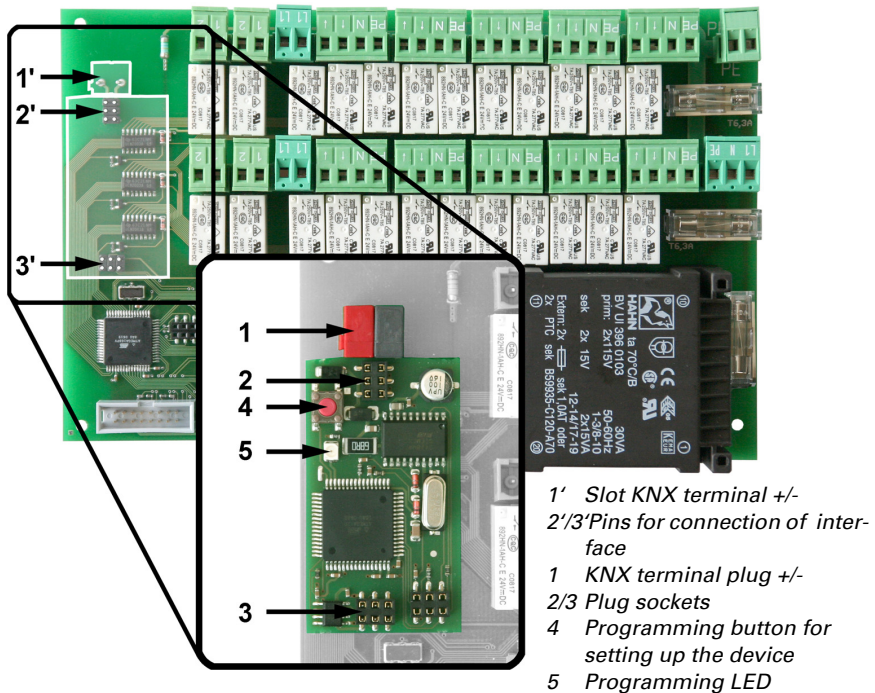
The device may only be used as a fixed-site installation; that means only when assembled and after conclusion of all installation and operational start-up tasks and only in the surroundings designated for it.

Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

2.2. Mounting and connection

Please take note of the chapters about installation of the control unit WS1000 in the manual of WS1000 Color/Style.

2.2.1. Fitting the interface to the board of WS1000



2.2.2. Connection

The **KNX Interface for WS1000** is plugged on the connection board of the WS1000 Color or WS1000 Style. There are 2 blocks with 6 pins each for this purpose (no. 2' and 3'). Place the interface on the pins and push it down.


Connect the KNX bus cable to the bus connector (red/black) and plug the connector to the slot of the WS1000 board (no. 1').

Before closing the housing of the control again, set up the bus connection with the programming button (no. 4). The KNX interface is displayed in the starting sequence of the control (KNX interface found).

2.3. Procedure

After the professional installation and commissioning, the basic settings have to be made in the ETS and then in the control menu **System > Installation**.

After the programming in the ETS, the control must be reset (also when making changes).

 6.3.2. Service-Einstellungen, Reset

System > WS1000 einstellen > Service > Reset

2.4. KNX transmission protocol

Abbreviations

Flags:

C: Communication

R: Read

W: Write

T: Transfer

AU: Update

2.4.1. List of all communications objects

No.	Name	Function	DPT	Flags
0	Software version	Output	217,001	C R T
1	Date	Input / Output	11,001	C W T
2	Time	Input / Output	10,001	C W T
3	Date and time request	Input	1,017	C S
4	Location Breitengrad	Output	14,007	C R T
5	Location Laengengrad	Output	14,007	C R T
6	Sun elevation Azimuth	Output	14,007	C R T
7	Sun position Elevation	Output	14,007	C R T
8	Sun elevation Azimuth	Output	9.*	C R T
9	Sun position Elevation	Output	9.*	C R T
10	Switching output night	Output	1,002	C R T
11	Switching output rain	Input / Output	1,002	C R W T
12	Outdoor temperature measurement value	Input / Output	9,001	C R W T
13	Wind force measurement value	Input / Output	9,005	C R W T
14	Wind force sensor 1 measurement value	Input	9.005	C W
15	Wind force sensor 2 measurement value	Input	9.005	C W
16	Wind force sensor 3 measurement value	Input	9.005	C W
17	Wind force sensor 4 measurement value	Input	14.007	C R W T
18	Wind direction 2 Byte	Input	9.*	C W
19	Winddirection 4 Byte	Input	14.007	C W
20	Brightness measurement value	Input / Output	9,004	C R W T
21	Reserve			
22	WS1000 defect	Output	1,002	C R T
23	Wind sensor defect	Output	1,002	C R T

No.	Name	Function	DPT	Flags
24	Temperature sensor defect	Output	1,002	C R T
25	Weather station defect	Output	1,002	C R T
26	Block	Input	1,002	C S
27	Wind sensor 1 defect	Output	1.002	C R T
28	Wind sensor 2 defect	Output	1.002	C R T
29	Wind sensor 3 defect	Output	1.002	C R T
30	Wind sensor 4 defect	Output	1.002	C R T
31	Wind direction defect	Output	1.002	C R T
32	Reserve			
33	Block 7_1: Long-time	Input / Output	1,008	C W T
34	Block 7_1: Short-time	Input / Output	1,01	C W T
35	Block 7_1: Actuation position	Output	5,001	C T
36	Block 7_1: Slat position	Output	5,001	C T
37	Block 7_1: Movement position feedback	Input	5,001	C W T
38	Block 7_1: Slat position feedback	Input	5,001	C W T
39	Block 7_1: Safety	Output	1,002	C R T
33	Block 7_1: Switching	Input / Output	1,001	C W T
34	Block 7_1: Switching feedback	Output	1,001	C R T
34	Block 7_1: Dimming	Output	3,007	C T
35	Block 7_1: Dimmer value in %	Input / Output	5,001	C W T
37	Block 7_1: Temperature	Input	9,001	C W T
38	Block 7_1: Air humidity	Input	9,007	C W T
39	Block 7_1: CO2	Input	9,008	C W T
39	Block 7_1: 2 byte floating point	Input	9.*	C W T
39	Block 7_1: 4 byte floating point	Input	14.*	C W T
40	Block 7_2: Long-time	Input / Output	1,008	C W T
41	Block 7_2: Short-time	Input / Output	1,01	C W T
42	Block 7_2: Actuation position	Output	5,001	C T
43	Block 7_2: Slat position	Output	5,001	C T
44	Block 7_2: Movement position feedback	Input	5,001	C W T
45	Block 7_2: Slat position feedback	Input	5,001	C W T
46	Block 7_2: Safety	Output	1,002	C R T
40	Block 7_2: Switching	Output	1,001	C W T
41	Block 7_2: Switching feedback	Input	1,001	C R T
41	Block 7_2: Dimming	Output	3,007	C T
42	Block 7_2: Dimmer value in %	Input / Output	5,001	C W T
44	Block 7_2: Temperature	Input	9,001	C W T

No.	Name	Function	DPT	Flags
45	Block 7_2: Air humidity	Input	9,007	C W T
46	Block 7_2: CO2	Input	9,008	C W T
46	Block 7_2: 2 byte floating point	Input	9.*	C W T
46	Block 7_2: 4 byte floating point	Input	14.*	C W T
47	Block 7_3: Long-time	Input / Output	1,008	C W T
48	Block 7_3: Short-time	Input / Output	1,01	C W T
49	Block 7_3: Actuation position	Output	5,001	C T
50	Block 7_3: Slat position	Output	5,001	C T
51	Block 7_3: Movement position feedback	Input	5,001	C W T
52	Block 7_3: Slat position feedback	Input	5,001	C W T
53	Block 7_3: Safety	Output	1,002	C R T
47	Block 7_3: Switching	Output	1,001	C W T
48	Block 7_3: Switching feedback	Input	1,001	C R T
48	Block 7_3: Dimming	Output	3,007	C T
49	Block 7_3: Dimmer value in %	Input / Output	5,001	C W T
51	Block 7_3: Temperature	Input	9,001	C W T
52	Block 7_3: Air humidity	Input	9,007	C W T
53	Block 7_3: CO2	Input	9,008	C W T
53	Block 7_3: 2 byte floating point	Input	9.*	C W T
53	Block 7_3: 4 byte floating point	Input	14.*	C W T
54	Block 7_4: Long-time	Input / Output	1,008	C W T
55	Block 7_4: Short-time	Input / Output	1,01	C W T
56	Block 7_4: Actuation position	Output	5,001	C T
57	Block 7_4: Slat position	Output	5,001	C T
58	Block 7_4: Movement position feedback	Input	5,001	C W T
59	Block 7_4: Slat position feedback	Input	5,001	C W T
60	Block 7_4: Safety	Output	1,002	C R T
54	Block 7_4: Switching	Output	1,001	C W T
55	Block 7_4: Switching feedback	Input	1,001	C R T
55	Block 7_4: Dimming	Output	3,007	C T
56	Block 7_4: Dimmer value in %	Input / Output	5,001	C W T
58	Block 7_4: Temperature	Input	9,001	C W T
59	Block 7_4: Air humidity	Input	9,007	C W T
60	Block 7_4: CO2	Input	9,008	C W T
60	Block 7_4: 2 byte floating point	Input	9.*	C W T
60	Block 7_4: 4 byte floating point	Input	14.*	C W T

No.	Name	Function	DPT	Flags
61	Block 7_5: Long-time	Input / Output	1,008	C W T
62	Block 7_5: Short-time	Input / Output	1,01	C W T
63	Block 7_5: Actuation position	Output	5,001	C T
64	Block 7_5: Slat position	Output	5,001	C T
65	Block 7_5: Movement position feedback	Input	5,001	C W T
66	Block 7_5: Slat position feedback	Input	5,001	C W T
67	Block 7_5: Safety	Output	1,002	C R T
61	Block 7_5: Switching	Output	1,001	C W T
62	Block 7_5: Switching feedback	Input	1,001	C R T
62	Block 7_5: Dimming	Output	3,007	C T
63	Block 7_5: Dimmer value in %	Input / Output	5,001	C W T
65	Block 7_5: Temperature	Input	9,001	C W T
66	Block 7_5: Air humidity	Input	9,007	C W T
67	Block 7_5: CO2	Input	9,008	C W T
67	Block 7_5: 2 byte floating point	Input	9.*	C W T
67	Block 7_5: 4 byte floating point	Input	14.*	C W T
68	Block 7_6: Long-time	Input / Output	1,008	C W T
69	Block 7_6: Short-time	Input / Output	1,01	C W T
70	Block 7_6: Actuation position	Output	5,001	C T
71	Block 7_6: Slat position	Output	5,001	C T
72	Block 7_6: Movement position feedback	Input	5,001	C W T
73	Block 7_6: Slat position feedback	Input	5,001	C W T
74	Block 7_6: Safety	Output	1,002	C R T
68	Block 7_6: Switching	Output	1,001	C W T
69	Block 7_6: Switching feedback	Input	1,001	C R T
69	Block 7_6: Dimming	Output	3,007	C T
70	Block 7_6: Dimmer value in %	Input / Output	5,001	C W T
72	Block 7_6: Temperature	Input	9,001	C W T
73	Block 7_6: Air humidity	Input	9,007	C W T
74	Block 7_6: CO2	Input	9,008	C W T
74	Block 7_6: 2 byte floating point	Input	9.*	C W T
74	Block 7_6: 4 byte floating point	Input	14.*	C W T
75	Block 7_7: Long-time	Input / Output	1,008	C W T
76	Block 7_7: Short-time	Input / Output	1,01	C W T
77	Block 7_7: Actuation position	Output	5,001	C T
78	Block 7_7: Slat position	Output	5,001	C T

No.	Name	Function	DPT	Flags
79	Block 7_7: Movement position feedback	Input	5,001	C W T
80	Block 7_7: Slat position feedback	Input	5,001	C W T
81	Block 7_7: Safety	Output	1,002	C R T
75	Block 7_7: Switching	Output	1,001	C W T
76	Block 7_7: Switching feedback	Input	1,001	C R T
76	Block 7_7: Dimming	Output	3,007	C T
77	Block 7_7: Dimmer value in %	Input / Output	5,001	C W T
79	Block 7_7: Temperature	Input	9,001	C W T
80	Block 7_7: Air humidity	Input	9,007	C W T
81	Block 7_7: CO2	Input	9,008	C W T
81	Block 7_7: 2 byte floating point	Input	9.*	C W T
81	Block 7_7: 4 byte floating point	Input	14.*	C W T
82	Block 7_8: Long-time	Input / Output	1,008	C W T
83	Block 7_8: Short-time	Input / Output	1,01	C W T
84	Block 7_8: Actuation position	Output	5,001	C T
85	Block 7_8: Slat position	Output	5,001	C T
86	Block 7_8: Movement position feedback	Input	5,001	C W T
87	Block 7_8: Slat position feedback	Input	5,001	C W T
88	Block 7_8: Safety	Output	1,002	C R T
82	Block 7_8: Switching	Output	1,001	C W T
83	Block 7_8: Switching feedback	Input	1,001	C R T
83	Block 7_8: Dimming	Output	3,007	C T
84	Block 7_8: Dimmer value in %	Input / Output	5,001	C W T
86	Block 7_8: Temperature	Input	9,001	C W T
87	Block 7_8: Air humidity	Input	9,007	C W T
88	Block 7_8: CO2	Input	9,008	C W T
88	Block 7_8: 2 byte floating point	Input	9.*	C W T
88	Block 7_8: 4 byte floating point	Input	14.*	C W T
89	Block 7_9: Long-time	Input / Output	1,008	C W T
90	Block 7_9: Short-time	Input / Output	1,01	C W T
91	Block 7_9: Actuation position	Output	5,001	C T
92	Block 7_9: Slat position	Output	5,001	C T
93	Block 7_9: Movement position feedback	Input	5,001	C W T
94	Block 7_9: Slat position feedback	Input	5,001	C W T
95	Block 7_9: Safety	Output	1,002	C R T
89	Block 7_9: Switching	Output	1,001	C W T

No.	Name	Function	DPT	Flags
90	Block 7_9: Switching feedback	Input	1,001	C R T
90	Block 7_9: Dimming	Output	3,007	C T
91	Block 7_9: Dimmer value in %	Input / Output	5,001	C W T
93	Block 7_9: Temperature	Input	9,001	C W T
94	Block 7_9: Air humidity	Input	9,007	C W T
95	Block 7_9: CO2	Input	9,008	C W T
95	Block 7_9: 2 byte floating point	Input	9.*	C W T
95	Block 7_9: 4 byte floating point	Input	14.*	C W T
96	Block 7_10: Long-time	Input / Output	1,008	C W T
97	Block 7_10: Short-time	Input / Output	1,01	C W T
98	Block 7_10: Actuation position	Output	5,001	C T
99	Block 7_10: Slat position	Output	5,001	C T
100	Block 7_10: Movement position feedback	Input	5,001	C W T
101	Block 7_10: Slat position feedback	Input	5,001	C W T
102	Block 7_10: Safety	Output	1,002	C R T
96	Block 7_10: Switching	Output	1,001	C W T
97	Block 7_10: Switching feedback	Input	1,001	C R T
97	Block 7_10: Dimming	Output	3,007	C T
98	Block 7_10: Dimmer value in %	Input / Output	5,001	C W T
100	Block 7_10: Temperature	Input	9,001	C W T
101	Block 7_10: Air humidity	Input	9,007	C W T
102	Block 7_10: CO2	Input	9,008	C W T
102	Block 7_10: 2 byte floating point	Input	9.*	C W T
102	Block 7_10: 4 byte floating point	Input	14.*	C W T
103	Block 7_11: Long-time	Input / Output	1,008	C W T
104	Block 7_11: Short-time	Input / Output	1,01	C W T
105	Block 7_11: Actuation position	Output	5,001	C T
106	Block 7_11: Slat position	Output	5,001	C T
107	Block 7_11: Movement position feedback	Input	5,001	C W T
108	Block 7_11: Slat position feedback	Input	5,001	C W T
109	Block 7_11: Safety	Output	1,002	C R T
103	Block 7_11: Switching	Output	1,001	C W T
104	Block 7_11: Switching feedback	Input	1,001	C R T
104	Block 7_11: Dimming	Output	3,007	C T
105	Block 7_11: Dimmer value in %	Input / Output	5,001	C W T
107	Block 7_11: Temperature	Input	9,001	C W T
108	Block 7_11: Air humidity	Input	9,007	C W T

No.	Name	Function	DPT	Flags
109	Block 7_11: CO2	Input	9,008	C W T
109	Block 7_11: 2 byte floating point	Input	9.*	C W T
109	Block 7_11: 4 byte floating point	Input	14.*	C W T
110	Block 7_12: Long-time	Input / Output	1,008	C W T
111	Block 7_12: Short-time	Input / Output	1,01	C W T
112	Block 7_12: Actuation position	Output	5,001	C T
113	Block 7_12: Slat position	Output	5,001	C T
114	Block 7_12: Movement position feedback	Input	5,001	C W T
115	Block 7_12: Slat position feedback	Input	5,001	C W T
116	Block 7_12: Safety	Output	1,002	C R T
110	Block 7_12: Switching	Output	1,001	C W T
111	Block 7_12: Switching feedback	Input	1,001	C R T
111	Block 7_12: Dimming	Output	3,007	C T
112	Block 7_12: Dimmer value in %	Input / Output	5,001	C W T
114	Block 7_12: Temperature	Input	9,001	C W T
115	Block 7_12: Air humidity	Input	9,007	C W T
116	Block 7_12: CO2	Input	9,008	C W T
116	Block 7_12: 2 byte floating point	Input	9.*	C W T
116	Block 7_12: 4 byte floating point	Input	14.*	C W T
117	Block 7_13: Long-time	Input / Output	1,008	C W T
118	Block 7_13: Short-time	Input / Output	1,01	C W T
119	Block 7_13: Actuation position	Output	5,001	C T
120	Block 7_13: Slat position	Output	5,001	C T
121	Block 7_13: Movement position feedback	Input	5,001	C W T
122	Block 7_13: Slat position feedback	Input	5,001	C W T
123	Block 7_13: Safety	Output	1,002	C R T
117	Block 7_13: Switching	Output	1,001	C W T
118	Block 7_13: Switching feedback	Input	1,001	C R T
118	Block 7_13: Dimming	Output	3,007	C T
119	Block 7_13: Dimmer value in %	Input / Output	5,001	C W T
121	Block 7_13: Temperature	Input	9,001	C W T
122	Block 7_13: Air humidity	Input	9,007	C W T
123	Block 7_13: CO2	Input	9,008	C W T
123	Block 7_13: 2 byte floating point	Input	9.*	C W T
123	Block 7_13: 4 byte floating point	Input	14.*	C W T
124	Block 7_14: Long-time	Input / Output	1,008	C W T

No.	Name	Function	DPT	Flags
125	Block 7_14: Short-time	Input / Output	1,01	C W T
126	Block 7_14: Actuation position	Output	5,001	C T
127	Block 7_14: Slat position	Output	5,001	C T
128	Block 7_14: Movement position feedback	Input	5,001	C W T
129	Block 7_14: Slat position feedback	Input	5,001	C W T
130	Block 7_14: Safety	Output	1,002	C R T
124	Block 7_14: Switching	Output	1,001	C W T
125	Block 7_14: Switching feedback	Input	1,001	C R T
125	Block 7_14: Dimming	Output	3,007	C T
126	Block 7_14: Dimmer value in %	Input / Output	5,001	C W T
128	Block 7_14: Temperature	Input	9,001	C W T
129	Block 7_14: Air humidity	Input	9,007	C W T
130	Block 7_14: CO2	Input	9,008	C W T
130	Block 7_14: 2 byte floating point	Input	9.*	C W T
130	Block 7_14: 4 byte floating point	Input	14.*	C W T
131	Block 7_15: Long-time	Input / Output	1,008	C W T
132	Block 7_15: Short-time	Input / Output	1,01	C W T
133	Block 7_15: Actuation position	Output	5,001	C T
134	Block 7_15: Slat position	Output	5,001	C T
135	Block 7_15: Movement position feedback	Input	5,001	C W T
136	Block 7_15: Slat position feedback	Input	5,001	C W T
137	Block 7_15: Safety	Output	1,002	C R T
131	Block 7_15: Switching	Output	1,001	C W T
132	Block 7_15: Switching feedback	Input	1,001	C R T
132	Block 7_15: Dimming	Output	3,007	C T
133	Block 7_15: Dimmer value in %	Input / Output	5,001	C W T
135	Block 7_15: Temperature	Input	9,001	C W T
136	Block 7_15: Air humidity	Input	9,007	C W T
137	Block 7_15: CO2	Input	9,008	C W T
137	Block 7_15: 2 byte floating point	Input	9.*	C W T
137	Block 7_15: 4 byte floating point	Input	14.*	C W T
138	Block 7_16: Long-time	Input / Output	1,008	C W T
139	Block 7_16: Short-time	Input / Output	1,01	C W T
140	Block 7_16: Actuation position	Output	5,001	C T
141	Block 7_16: Slat position	Output	5,001	C T
142	Block 7_16: Movement position feedback	Input	5,001	C W T

No.	Name	Function	DPT	Flags
143	Block 7_16: Slat position feedback	Input	5,001	C W T
144	Block 7_16: Safety	Output	1,002	C R T
138	Block 7_16: Switching	Output	1,001	C W T
139	Block 7_16: Switching feedback	Input	1,001	C R T
139	Block 7_16: Dimming	Output	3,007	C T
140	Block 7_16: Dimmer value in %	Input / Output	5,001	C W T
142	Block 7_16: Temperature	Input	9,001	C W T
143	Block 7_16: Air humidity	Input	9,007	C W T
144	Block 7_16: CO2	Input	9,008	C W T
144	Block 7_16: 2 byte floating point	Input	9.*	C W T
144	Block 7_16: 4 byte floating point	Input	14.*	C W T
145	Block 7_17: Long-time	Input / Output	1,008	C W T
146	Block 7_17: Short-time	Input / Output	1,01	C W T
147	Block 7_17: Actuation position	Output	5,001	C T
148	Block 7_17: Slat position	Output	5,001	C T
149	Block 7_17: Movement position feedback	Input	5,001	C W T
150	Block 7_17: Slat position feedback	Input	5,001	C W T
151	Block 7_17: Safety	Output	1,002	C R T
145	Block 7_17: Switching	Output	1,001	C W T
146	Block 7_17: Switching feedback	Input	1,001	C R T
146	Block 7_17: Dimming	Output	3,007	C T
147	Block 7_17: Dimmer value in %	Input / Output	5,001	C W T
149	Block 7_17: Temperature	Input	9,001	C W T
150	Block 7_17: Air humidity	Input	9,007	C W T
151	Block 7_17: CO2	Input	9,008	C W T
151	Block 7_17: 2 byte floating point	Input	9.*	C W T
151	Block 7_17: 4 byte floating point	Input	14.*	C W T
152	Block 7_18: Long-time	Input / Output	1,008	C W T
153	Block 7_18: Short-time	Input / Output	1,01	C W T
154	Block 7_18: Actuation position	Output	5,001	C T
155	Block 7_18: Slat position	Output	5,001	C T
156	Block 7_18: Movement position feedback	Input	5,001	C W T
157	Block 7_18: Slat position feedback	Input	5,001	C W T
158	Block 7_18: Safety	Output	1,002	C R T
152	Block 7_18: Switching	Output	1,001	C W T
153	Block 7_18: Switching feedback	Input	1,001	C R T
153	Block 7_18: Dimming	Output	3,007	C T

No.	Name	Function	DPT	Flags
154	Block 7_18: Dimmer value in %	Input / Output	5,001	C W T
156	Block 7_18: Temperature	Input	9,001	C W T
157	Block 7_18: Air humidity	Input	9,007	C W T
158	Block 7_18: CO2	Input	9,008	C W T
158	Block 7_18: 2 byte floating point	Input	9.*	C W T
158	Block 7_18: 4 byte floating point	Input	14.*	C W T
159	Block 7_19: Long-time	Input / Output	1,008	C W T
160	Block 7_19: Short-time	Input / Output	1,01	C W T
161	Block 7_19: Actuation position	Output	5,001	C T
162	Block 7_19: Slat position	Output	5,001	C T
163	Block 7_19: Movement position feedback	Input	5,001	C W T
164	Block 7_19: Slat position feedback	Input	5,001	C W T
165	Block 7_19: Safety	Output	1,002	C R T
159	Block 7_19: Switching	Output	1,001	C W T
160	Block 7_19: Switching feedback	Input	1,001	C R T
160	Block 7_19: Dimming	Output	3,007	C T
161	Block 7_19: Dimmer value in %	Input / Output	5,001	C W T
163	Block 7_19: Temperature	Input	9,001	C W T
164	Block 7_19: Air humidity	Input	9,007	C W T
165	Block 7_19: CO2	Input	9,008	C W T
165	Block 7_19: 2 byte floating point	Input	9.*	C W T
165	Block 7_19: 4 byte floating point	Input	14.*	C W T
166	Block 7_20: Long-time	Input / Output	1,008	C W T
167	Block 7_20: Short-time	Input / Output	1,01	C W T
168	Block 7_20: Actuation position	Output	5,001	C T
169	Block 7_20: Slat position	Output	5,001	C T
170	Block 7_20: Movement position feedback	Input	5,001	C W T
171	Block 7_20: Slat position feedback	Input	5,001	C W T
172	Block 7_20: Safety	Output	1,002	C R T
166	Block 7_20: Switching	Output	1,001	C W T
167	Block 7_20: Switching feedback	Input	1,001	C R T
167	Block 7_20: Dimming	Output	3,007	C T
168	Block 7_20: Dimmer value in %	Input / Output	5,001	C W T
170	Block 7_20: Temperature	Input	9,001	C W T
No.	Name	Function	DPT	Flags
171	Block 7_20: Air humidity	Input	9,007	C W T
172	Block 7_20: CO2	Input	9,008	C W T

No.	Name	Function	DPT	Flags
172	Block 7_20: 2 byte floating point	Input	9.*	C W T
172	Block 7_20: 4 byte floating point	Input	14.*	C W T
173	Block 7_21: Long-time	Input / Output	1,008	C W T
174	Block 7_21: Short-time	Input / Output	1,01	C W T
175	Block 7_21: Actuation position	Output	5,001	C T
176	Block 7_21: Slat position	Output	5,001	C T
177	Block 7_21: Movement position feedback	Input	5,001	C W T
178	Block 7_21: Slat position feedback	Input	5,001	C W T
179	Block 7_21: Safety	Output	1,002	C R T
173	Block 7_21: Switching	Output	1,001	C W T
174	Block 7_21: Switching feedback	Input	1,001	C R T
174	Block 7_21: Dimming	Output	3,007	C T
175	Block 7_21: Dimmer value in %	Input / Output	5,001	C W T
177	Block 7_21: Temperature	Input	9,001	C W T
178	Block 7_21: Air humidity	Input	9,007	C W T
179	Block 7_21: CO2	Input	9,008	C W T
179	Block 7_21: 2 byte floating point	Input	9.*	C W T
179	Block 7_21: 4 byte floating point	Input	14.*	C W T
180	Block 7_22: Long-time	Input / Output	1,008	C W T
181	Block 7_22: Short-time	Input / Output	1,01	C W T
182	Block 7_22: Actuation position	Output	5,001	C T
183	Block 7_22: Slat position	Output	5,001	C T
184	Block 7_22: Movement position feedback	Input	5,001	C W T
185	Block 7_22: Slat position feedback	Input	5,001	C W T
186	Block 7_22: Safety	Output	1,002	C R T
180	Block 7_22: Switching	Output	1,001	C W T
181	Block 7_22: Switching feedback	Input	1,001	C R T
181	Block 7_22: Dimming	Output	3,007	C T
182	Block 7_22: Dimmer value in %	Input / Output	5,001	C W T
184	Block 7_22: Temperature	Input	9,001	C W T
185	Block 7_22: Air humidity	Input	9,007	C W T
186	Block 7_22: CO2	Input	9,008	C W T
186	Block 7_22: 2 byte floating point	Input	9.*	C W T
186	Block 7_22: 4 byte floating point	Input	14.*	C W T
187	Block 3_1: Switching	Output	1,001	C W T
188	Block 3_1: Switching feedback	Input	1,001	C R T

No.	Name	Function	DPT	Flags
188	Block 3_1: Dimming	Output	3,007	C T
189	Block 3_1: Dimmer value in %	Input / Output	5,001	C W T
187	Block 3_1: Temperature	Input	9,001	C W T
188	Block 3_1: Air humidity	Input	9,007	C W T
189	Block 3_1: CO2	Input	9,008	C W T
189	Block 3_1: 2 byte floating point	Input	9.*	C W T
189	Block 3_1: 4 byte floating point	Input	14.*	C W T
190	Block 3_2: Switching	Output	1,001	C W T
191	Block 3_2: Switching feedback	Input	1,001	C R T
191	Block 3_2: Dimming	Output	3,007	C T
192	Block 3_2: Dimmer value in %	Input / Output	5,001	C W T
190	Block 3_2: Temperature	Input	9,001	C W T
191	Block 3_2: Air humidity	Input	9,007	C W T
192	Block 3_2: CO2	Input	9,008	C W T
192	Block 3_2: 2 byte floating point	Input	9.*	C W T
192	Block 3_2: 4 byte floating point	Input	14.*	C W T
193	Block 3_3: Switching	Output	1,001	C W T
194	Block 3_3: Switching feedback	Input	1,001	C R T
194	Block 3_3: Dimming	Output	3,007	C T
195	Block 3_3: Dimmer value in %	Input / Output	5,001	C W T
193	Block 3_3: Temperature	Input	9,001	C W T
194	Block 3_3: Air humidity	Input	9,007	C W T
195	Block 3_3: CO2	Input	9,008	C W T
195	Block 3_3: 2 byte floating point	Input	9.*	C W T
195	Block 3_3: 4 byte floating point	Input	14.*	C W T
196	Block 3_4: Switching	Output	1,001	C W T
197	Block 3_4: Switching feedback	Input	1,001	C R T
197	Block 3_4: Dimming	Output	3,007	C T
198	Block 3_4: Dimmer value in %	Input / Output	5,001	C W T
196	Block 3_4: Temperature	Input	9,001	C W T
197	Block 3_4: Air humidity	Input	9,007	C W T
198	Block 3_4: CO2	Input	9,008	C W T
198	Block 3_4: 2 byte floating point	Input	9.*	C W T
198	Block 3_4: 4 byte floating point	Input	14.*	C W T
199	Block 3_5: Switching	Output	1,001	C W T
200	Block 3_5: Switching feedback	Input	1,001	C R T
200	Block 3_5: Dimming	Output	3,007	C T

No.	Name	Function	DPT	Flags
201	Block 3_5: Dimmer value in %	Input / Output	5,001	C W T
199	Block 3_5: Temperature	Input	9,001	C W T
200	Block 3_5: Air humidity	Input	9,007	C W T
201	Block 3_5: CO2	Input	9,008	C W T
201	Block 3_5: 2 byte floating point	Input	9.*	C W T
201	Block 3_5: 4 byte floating point	Input	14.*	C W T
202	Block 3_6: Switching	Output	1,001	C W T
203	Block 3_6: Switching feedback	Input	1,001	C R T
203	Block 3_6: Dimming	Output	3,007	C T
204	Block 3_6: Dimmer value in %	Input / Output	5,001	C W T
202	Block 3_6: Temperature	Input	9,001	C W T
203	Block 3_6: Air humidity	Input	9,007	C W T
204	Block 3_6: CO2	Input	9,008	C W T
204	Block 3_6: 2 byte floating point	Input	9.*	C W T
204	Block 3_6: 4 byte floating point	Input	14.*	C W T
205	Block 3_7: Switching	Output	1,001	C W T
206	Block 3_7: Switching feedback	Input	1,001	C R T
206	Block 3_7: Dimming	Output	3,007	C T
207	Block 3_7: Dimmer value in %	Input / Output	5,001	C W T
205	Block 3_7: Temperature	Input	9,001	C W T
206	Block 3_7: Air humidity	Input	9,007	C W T
207	Block 3_7: CO2	Input	9,008	C W T
207	Block 3_7: 2 byte floating point	Input	9.*	C W T
207	Block 3_7: 4 byte floating point	Input	14.*	C W T
208	Block 3_8: Switching	Output	1,001	C W T
209	Block 3_8: Switching feedback	Input	1,001	C R T
209	Block 3_8: Dimming	Output	3,007	C T
210	Block 3_8: Dimmer value in %	Input / Output	5,001	C W T
208	Block 3_8: Temperature	Input	9,001	C W T
209	Block 3_8: Air humidity	Input	9,007	C W T
210	Block 3_8: CO2	Input	9,008	C W T
210	Block 3_8: 2 byte floating point	Input	9.*	C W T
210	Block 3_8: 4 byte floating point	Input	14.*	C W T
211	Block 3_9: Switching	Output	1,001	C W T
212	Block 3_9: Switching feedback	Input	1,001	C R T
212	Block 3_9: Dimming	Output	3,007	C T

No.	Name	Function	DPT	Flags
213	Block 3_9: Dimmer value in %	Input / Output	5,001	C W T
211	Block 3_9: Temperature	Input	9,001	C W T
212	Block 3_9: Air humidity	Input	9,007	C W T
213	Block 3_9: CO2	Input	9,008	C W T
213	Block 3_9: 2 byte floating point	Input	9.*	C W T
213	Block 3_9: 4 byte floating point	Input	14.*	C W T
214	Block 3_10: Switching	Output	1,001	C W T
215	Block 3_10: Switching feedback	Input	1,001	C R T
215	Block 3_10: Dimming	Output	3,007	C T
216	Block 3_10: Dimmer value in %	Input / Output	5,001	C W T
214	Block 3_10: Temperature	Input	9,001	C W T
215	Block 3_10: Air humidity	Input	9,007	C W T
216	Block 3_10: CO2	Input	9,008	C W T
216	Block 3_10: 2 byte floating point	Input	9.*	C W T
216	Block 3_10: 4 byte floating point	Input	14.*	C W T
217	Block 2_1: Switching	Output	1,001	C W T
218	Block 2_1: Switching feedback	Input	1,001	C R T
217	Block 2_1: Temperature	Input	9,001	C W T
218	Block 2_1: Air humidity	Input	9,007	C W T
218	Block 2_1: 2 byte floating point	Input	9.*	C W T
218	Block 2_1: 4 byte floating point	Input	14.*	C W T
219	Block 2_2: Switching	Output	1,001	C W T
220	Block 2_2: Switching feedback	Input	1,001	C R T
219	Block 2_2: Temperature	Input	9,001	C W T
220	Block 2_2: Air humidity	Input	9,007	C W T
220	Block 2_2: 2 byte floating point	Input	9.*	C W T
220	Block 2_2: 4 byte floating point	Input	14.*	C W T
221	Block 2_3: Switching	Output	1,001	C W T
222	Block 2_3: Switching feedback	Input	1,001	C R T
221	Block 2_3: Temperature	Input	9,001	C W T
222	Block 2_3: Air humidity	Input	9,007	C W T
222	Block 2_3: 2 byte floating point	Input	9.*	C W T
222	Block 2_3: 4 byte floating point	Input	14.*	C W T
223	Block 2_4: Switching	Output	1,001	C W T
224	Block 2_4: Switching feedback	Input	1,001	C R T

No.	Name	Function	DPT	Flags
223	Block 2_4: Temperature	Input	9,001	C W T
224	Block 2_4: Air humidity	Input	9,007	C W T
224	Block 2_4: 2 byte floating point	Input	9.*	C W T
224	Block 2_4: 4 byte floating point	Input	14.*	C W T
225	Block 2_5: Switching	Output	1,001	C W T
226	Block 2_5: Switching feedback	Input	1,001	C R T
225	Block 2_5: Temperature	Input	9,001	C W T
226	Block 2_5: Air humidity	Input	9,007	C W T
226	Block 2_5: 2 byte floating point	Input	9.*	C W T
226	Block 2_5: 4 byte floating point	Input	14.*	C W T
227	Block 2_6: Switching	Output	1,001	C W T
228	Block 2_6: Switching feedback	Input	1,001	C R T
227	Block 2_6: Temperature	Input	9,001	C W T
228	Block 2_6: Air humidity	Input	9,007	C W T
228	Block 2_6: 2 byte floating point	Input	9.*	C W T
228	Block 2_6: 4 byte floating point	Input	14.*	C W T
229	Block 2_7: Switching	Output	1,001	C W T
230	Block 2_7: Switching feedback	Input	1,001	C R T
229	Block 2_7: Temperature	Input	9,001	C W T
230	Block 2_7: Air humidity	Input	9,007	C W T
230	Block 2_7: 2 byte floating point	Input	9.*	C W T
230	Block 2_7: 4 byte floating point	Input	14.*	C W T
231	Block 2_8: Switching	Output	1,001	C W T
232	Block 2_8: Switching feedback	Input	1,001	C R T
231	Block 2_8: Temperature	Input	9,001	C W T
232	Block 2_8: Air humidity	Input	9,007	C W T
232	Block 2_8: 2 byte floating point	Input	9.*	C W T
232	Block 2_8: 4 byte floating point	Input	14.*	C W T
233	Block 2_9: Switching	Output	1,001	C W T
234	Block 2_9: Switching feedback	Input	1,001	C R T
233	Block 2_9: Temperature	Input	9,001	C W T
234	Block 2_9: Air humidity	Input	9,007	C W T
234	Block 2_9: 2 byte floating point	Input	9.*	C W T
234	Block 2_9: 4 byte floating point	Input	14.*	C W T

No.	Name	Function	DPT	Flags
235	Block 2_10: Switching	Output	1,001	C W T
236	Block 2_10: Switching feedback	Input	1,001	C R T
235	Block 2_10: Temperature	Input	9,001	C W T
236	Block 2_10: Air humidity	Input	9,007	C W T
236	Block 2_10: 2 byte floating point	Input	9.*	C W T
236	Block 2_10: 4 byte floating point	Input	14.*	C W T
237	Block 1_1: Temperature	Input	9,001	C W T
237	Block 1_1: 2 byte floating point	Input	9.*	C W T
237	Block 1_1: 4 byte floating point	Input	14.*	C W T
238	Block 1_2: Temperature	Input	9,001	C W T
238	Block 1_2: 2 byte floating point	Input	9.*	C W T
238	Block 1_2: 4 byte floating point	Input	14.*	C W T
239	Block 1_3: Temperature	Input	9,001	C W T
239	Block 1_3: 2 byte floating point	Input	9.*	C W T
239	Block 1_3: 4 byte floating point	Input	14.*	C W T
240	Block 1_4: Temperature	Input	9,001	C W T
240	Block 1_4: 2 byte floating point	Input	9.*	C W T
240	Block 1_4: 4 byte floating point	Input	14.*	C W T
241	Block 1_5: Temperature	Input	9,001	C W T
241	Block 1_5: 2 byte floating point	Input	9.*	C W T
241	Block 1_5: 4 byte floating point	Input	14.*	C W T
242	Block 1_6: Temperature	Input	9,001	C W T
242	Block 1_6: 2 byte floating point	Input	9.*	C W T
242	Block 1_6: 4 byte floating point	Input	14.*	C W T
243	Block 1_7: Temperature	Input	9,001	C W T
243	Block 1_7: 2 byte floating point	Input	9.*	C W T
243	Block 1_7: 4 byte floating point	Input	14.*	C W T
244	Block 1_8: Temperature	Input	9,001	C W T
244	Block 1_8: 2 byte floating point	Input	9.*	C W T
244	Block 1_8: 4 byte floating point	Input	14.*	C W T
245	Block 1_9: Temperature	Input	9,001	C W T

No.	Name	Function	DPT	Flags
245	Block 1_9: 2 byte floating point	Input	9.*	C W T
245	Block 1_9: 4 byte floating point	Input	14.*	C W T
246	Block 1_10: Temperature	Input	9,001	C W T
246	Block 1_10: 2 byte floating point	Input	9.*	C W T
246	Block 1_10: 4 byte floating point	Input	14.*	C W T
247	Block 1_11: Temperature	Input	9,001	C W T
247	Block 1_11: 2 byte floating point	Input	9.*	C W T
247	Block 1_11: 4 byte floating point	Input	14.*	C W T
248	Block 1_12: Temperature	Input	9,001	C W T
248	Block 1_12: 2 byte floating point	Input	9.*	C W T
248	Block 1_12: 4 byte floating point	Input	14.*	C W T
249	Block 1_13: Temperature	Input	9,001	C W T
249	Block 1_13: 2 byte floating point	Input	9.*	C W T
249	Block 1_13: 4 byte floating point	Input	14.*	C W T
250	Block 1_14: Temperature	Input	9,001	C W T
250	Block 1_14: 2 byte floating point	Input	9.*	C W T
250	Block 1_14: 4 byte floating point	Input	14.*	C W T
251	Block 1_15: Temperature	Input	9,001	C W T
251	Block 1_15: 2 byte floating point	Input	9.*	C W T
251	Block 1_15: 4 byte floating point	Input	14.*	C W T
252	Block 1_16: Temperature	Input	9,001	C W T
252	Block 1_16: 2 byte floating point	Input	9.*	C W T
252	Block 1_16: 4 byte floating point	Input	14.*	C W T
253	Block 1_17: Temperature	Input	9,001	C W T
253	Block 1_17: 2 byte floating point	Input	9.*	C W T
253	Block 1_17: 4 byte floating point	Input	14.*	C W T

2.5. Parameter setting

Malfunctions and error messages

Malfunction/Defect of the KNX interface:

- In the display unit of the **KNX Interface**, the message "KNX interface defect" is displayed instead of the weather animation.
- No communication with the bus takes place.
- If it is configured in the ETS that the weather data needs to be received from the bus, a wind or rain alarm is triggered to the controller.

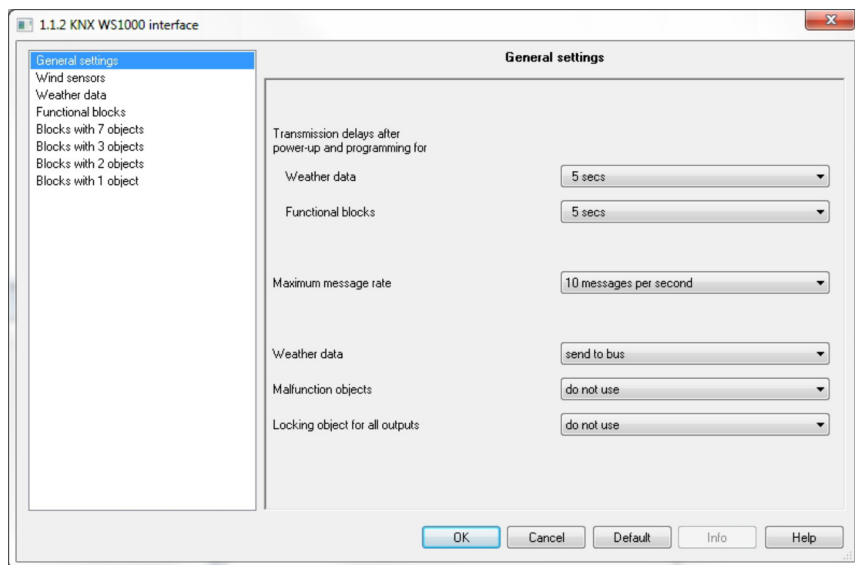
Malfunction/Defect of the controller KNX Interface (KNX interface does not receive any message from the controller for 30 seconds):

- A fault warning is transmitted to the bus.

Malfunction/Defect of a KNX sensor or actuator that has already been configured (no data reception):

- In the manual menu of the **KNX Interface**, the message "No measured values received" or "Position unknown" or "Defect" is displayed for the bus subscriber.

2.5.1. General settings



Transmission delays after power-up and programming for:	
Weather data	5 s • 10 s • 30 s • 1 min • ... • 2 h
Functional blocks	5 s • 10 s • 30 s • 1 min • ... • 2 h
Maximum message rate	10 • 20 messages per second
Weather data	<ul style="list-style-type: none"> • do not use • send to bus • receive from bus
Malfunction object	do not use • use
Locking object for all outputs	do not use • use
Blocking before 1st communication (only if the locking object is used for all outputs)	not active • active

2.5.2. Wind sensors

In this menu you can set the evaluation of additional wind sensors by the control. A wind sensor connected directly to the control can transmit data to the bus, a wind sensor in the bus system can transmit data to the control. The reception of data from the bus can be monitored. In this case, wind alarm will be triggered if data has not been received correctly.

Wind speed:

Monitoring time for wind sensors 1...4	5 s • 10 s • 30 s • 1 min • ... • 2 h
Wind sensor 1/2/3/4	<ul style="list-style-type: none"> • <u>do not use</u> • transmits on bus • receives from bus (without monitoring) • receives from bus (with monitoring)

If the wind sensor is connected directly to the control and transmits on the bus:

Sending behaviour	<ul style="list-style-type: none"> • transmit periodically • <u>transmit on change</u> • transmit on change and periodically
on change of (only if transmitting on change)	0.5 m/s • 1.0 m/s • 2.0 m/s • 5.0 m/s
Transmit cycle (only if transmitting periodically)	5 secs • <u>10 secs</u> • 30 secs • 1 min • ... • 2 h
Use malfunction object verwenden	<u>No</u> • Yes

Wind direction:

Note: The function „Wind direction: transmits on bus“ is not possible with P03i-GPS weather station, as wind direction is not detected.

Wind direction	<ul style="list-style-type: none"> • <u>do not use</u> [• transmits on bus] • receives from bus (without monitoring) • receives from bus (with monitoring)
on change of <i>(only if transmitting on change)</i>	<u>0.5 m/s</u> • 1.0 m/s • 2.0 m/s • 5.0 m/s
Transmit cycle <i>(only if transmitting periodically)</i>	5 secs • <u>10 secs</u> • 30 secs • 1 min • ... • 2 h
Use malfunction object verwenden	<u>No</u> • Yes

If the wind direction sensor is connected directly to the control and transmits on the bus:

Sending behaviour	<ul style="list-style-type: none"> • transmit periodically • <u>transmit on change</u> • transmit on change and periodically
on change of <i>(only if transmitting on change)</i>	<u>0.5 m/s</u> • 1.0 m/s • 2.0 m/s • 5.0 m/s
Transmit cycle <i>(only if transmitting periodically)</i>	5 secs • <u>10 secs</u> • 30 secs • 1 min • ... • 2 h
Use malfunction object verwenden	<u>No</u> • Yes

If the reception of the wind direction from the bus is monitored:

Monitoring time of wind direction sensor	<u>5 secs</u> • 10 secs • 30 secs • 1 min • ... • 2 h
---	---

2.5.3. Weather data

The menu point appears only if weather data needs to be transmitted on the bus or received from it.

Weather data is transmitted on the bus

In "General Settings", the option selected is:

Weather data	send to bus
Date and time	<ul style="list-style-type: none"> • do not transmit • transmit periodically • send at request • send at request and periodically
Transmit cycle <i>(only if "periodically" is selected)</i>	5 s • 10 s • 30 s • 1 min • ... • 2 h
Location coordinates	<ul style="list-style-type: none"> • do not transmit • transmit periodically • transmit on change • transmit on change and periodically
On change of <i>(only if "on change" is selected)</i>	0.5 degree • 1 degree • 2 degrees • 5 degrees • 10 degrees

Transmit cycle (only if "periodically" is selected)	5 s • 10 s • 30 s • 1 min • ... • 2 h
Sun position	<ul style="list-style-type: none"> • do not transmit • transmit periodically • transmit on change • transmit on change and periodically
On change of (only if "on change" is selected)	1 ... 15 degrees
Transmit cycle (only if "periodically" is selected)	5 s • 10 s • 30 s • 1 min • ... • 2 h
Night switching output	<ul style="list-style-type: none"> • do not transmit • transmit on change • send on change to 1 • send on change to 0 • transmit on change and periodically • send on change to 1 and periodically • send on change to 0 and periodically
Transmit cycle (only if "periodically" is selected)	5 s • 10 s • 30 s • 1 min • ... • 2 h
Rain switching output	<ul style="list-style-type: none"> • do not transmit • transmit on change • send on change to 1 • send on change to 0 • transmit on change and periodically • send on change to 1 and periodically • send on change to 0 and periodically
Transmit cycle (only if "periodically" is selected)	5 s • 10 s • 30 s • 1 min • ... • 2 h
Temperature measurement value	<ul style="list-style-type: none"> • do not transmit • transmit periodically • transmit on change • transmit on change and periodically
On change of (only if "on change" is selected)	0.1°C • 0.2°C • 0.5°C • 1.0°C • 2.0°C • 5.0°C
Transmit cycle (only if "periodically" is selected)	5 s • 10 s • 30 s • 1 min • ... • 2 h
Wind measurement	<ul style="list-style-type: none"> • do not transmit • transmit periodically • transmit on change • transmit on change and periodically
On change of (only if "on change" is selected)	0.5 m/s • 1 m/s • 2 m/s • 5 m/s
Transmit cycle (only if "periodically" is selected)	5 s • 10 s • 30 s • 1 min • ... • 2 h

Brightness measurement value	<ul style="list-style-type: none"> • do not transmit • transmit periodically • transmit on change • transmit on change and periodically
On change of <i>(only if "on change" is selected)</i>	2% • 5% • 10% • 25% • 50%
Transmit cycle <i>(only if "periodically" is selected)</i>	5 s • 10 s • 30 s • 1 min • ... • 2 h

Weather data is received from the bus

In "General Settings", the option selected is:

Weather data	receive from bus
--------------	------------------

Set the monitoring of the wind and rain objects:

Use monitoring of wind and rain objects	No • Yes
Monitoring period for wind object	5 s • 10 s • 30 s • 1 min • ... • 2 h
Monitoring period for rain object	5 s • 10 s • 30 s • 1 min • ... • 2 h

If the **KNX Interface** does not receive any wind measured value or the precipitation status, a wind alarm or rain alarm is triggered to the controller. Drives with appropriate automatic settings for wind or rain protection then move to the safe position.

No date / time (**KNX Interface** is not receiving any time information from the bus after start-up/reset):

- In the display unit of the **KNX Interface**, the message "Please set the time" is displayed instead of the weather animation.

No weather data (**KNX Interface** is not receiving any weather data from the bus after start-up/reset):

- In the display unit of the **KNX Interface**, the message "No link to the weather station" is displayed instead of the weather animation.
- There is no automatic control active and the wind and rain alarms are cautiously active, i.e. drives with the appropriate settings for wind and rain protection move to the safe position.
- The normal automatic mode of operation is restored only if all the weather data has been received (brightness value, wind value, precipitation status and value of outdoor temperature).

2.5.4. Functional blocks

Sending behaviour of safety objects	<ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Transmit cycle (only if "periodically" is selected)	5 s • 10 s • 30 s • 1 min • ... • 2 h
Use blocks with 7 objects	No • Yes
Use blocks with 3 objects	No • Yes
Use blocks with 2 objects	No • Yes
Use blocks with 1 object	No • Yes

Blocks with 7 objects

The menu point appears only if the option that blocks with 7 objects should be used has been selected with "Functional blocks".

The data for awnings, blinds, shutters, windows and Elsner electronic ceiling fans WL305/610 is transmitted with the help of these 22 blocks. The blocks are also suitable for light, dimmers, buttons, 3-way combination sensors (temperature, humidity and CO₂), thermal hygrometer, temperature sensors and floating point values.

In "Functional Blocks", the option selected is:

Use blocks with 7 objects	Yes
Block 7_1 ... Block 7_22	<ul style="list-style-type: none"> • Do not use • Output: Blind • Output: Awning • Output: Shutters • Output: Windows • Output: Sliding window • Output: Step window • Output: Light switchable • Output: Light dimmable • Input: Up/down key • Input: On/Off key • Input: Temperature • Input: Temperature, humidity • Input: Temperature, humidity, CO₂ • Input: 2 byte floating point • Input: 4 byte floating point • Fan WL305/610

Bus communication of wireless ventilation units

If wireless ventilation units are switched to level 1 of air extraction, the flap is open but the blower stands still. Air extraction level = 12.5% is transmit on the bus.

📖 Manual WS1000, 3.1.7. Setting ventilation automation, Ventilation levels of wireless ventilators

Blocks with 3 objects

The menu point appears only if the option that blocks with 3 objects should be used has been selected with "Functional blocks".

The data for dimmers and 3-way combination sensors (temperature, humidity and CO2) is transmitted with the help of these 10 blocks. The blocks are also suitable for light, buttons, thermal hygrometer, temperature sensors and floating point values.

In "Functional Blocks", the option selected is:

Use blocks with 3 objects	Yes
Block 3_1 ... Block 3_10	<ul style="list-style-type: none"> • Do not use • Output: Light switchable • Output: Light dimmable • Input: Up/down key • Input: On/Off key • Input: Temperature • Input: Temperature, humidity • Input: Temperature, humidity, CO2 • Input: 2 byte floating point • Input: 4 byte floating point

Blocks with 2 objects

The menu point appears only if the option that blocks with 2 objects should be used has been selected with "Functional blocks".

The data for light, buttons and the thermal hygrometer is transmitted with the help of these 10 blocks. The blocks are also suitable for temperature sensors and floating point values.

In "Functional Blocks", the option selected is:

Use blocks with 2 objects	Yes
Block 2_1 ... Block 2_10	<ul style="list-style-type: none"> • Do not use • Output: Light switchable • Input: Up/down key • Input: On/Off key • Input: Temperature • Input: Temperature, humidity • Input: 2 byte floating point • Input: 4 byte floating point



Blocks with 1 object

The menu point appears only if the option that blocks with 1 object should be used has been selected with "Functional blocks".

The data for temperature sensors and floating point values is transmitted with the help of these 17 blocks.

In "Functional Blocks", the option selected is:

Use blocks with 1 object	Yes
Block 1_1 ... Block 1_17	<ul style="list-style-type: none"> • Do not use • Input: Temperature • Input: 2 byte floating point • Input: 4 byte floating point

