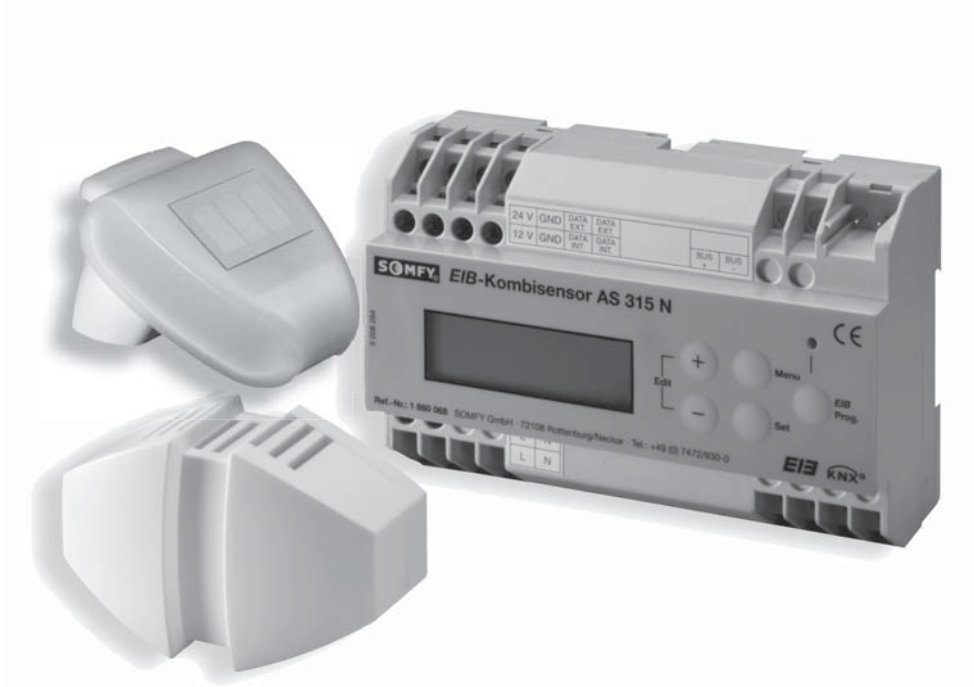
EIB-Combi-Sensor
AS 315 N

Operatingmanual

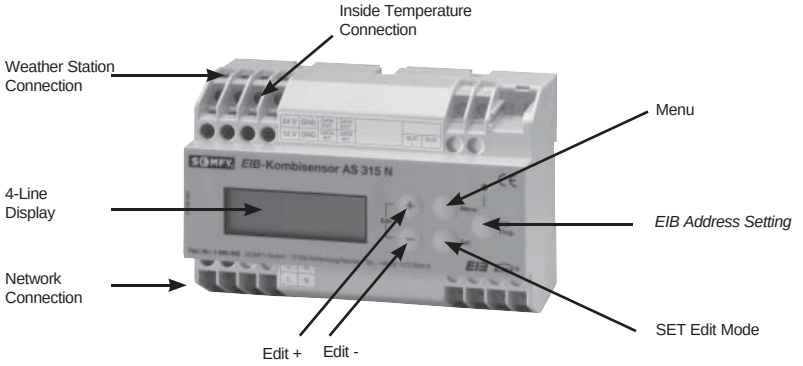


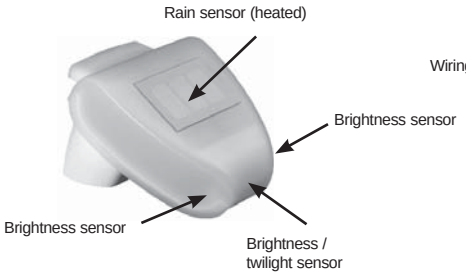
Contents

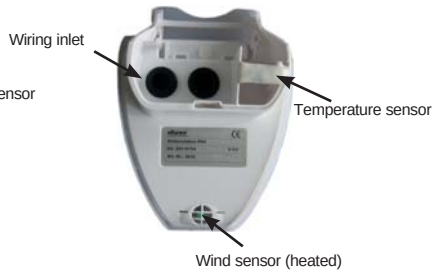
1 Description

The *EIB* Combi-sensor AS 315 N is a façade control unit for three façades. It controls the sun blind and window units in individual family homes or large buildings, providing these with optimal lighting and climate conditions.

The *EIB* Combi-sensor AS 315 N receives the following weather information via the weather station connected to it: Brightness from the east, south and west; twilight; wind velocity; rain; outside temperature; time of day and date (via the GPS receiver). The weather station is continuously monitored. An inside-temperature sensor may also be connected (for the winter garden, for example), as an optional feature. The *EIB* Combi-sensor AS 315 N evaluates and processes all weather signals, so that the sun blind and window units are controlled optimally and according to energy needs and the users' requirements. The important functions maybe regulated both via the ETS and directly on the AS 315 N.







1.1 Automated Operations

1.1.1 Sun System

Description:
The sun blind is regulated as a protection from glare, depending on the degree of light intensity. The automated sun system maybe turn off if desired, or it maybe set to shut off during a defined period of time. A constant hysteresis of 25% of the set value is programmed when switched back:
Example: The set value is 40 kLux. The sun system is activated when light intensity exceeds 40 kLux.
The current light intensity is sent to the bus for each façade. When the light intensity falls below 30 kLux, the sun system is deactivated. The current light-intensity value is transmitted to the bus for each façade.

ETS Settings:
The automated sun system, the response and delay time, the set and switch values are individually set for each façade via ETS parametering.

Direct Settings:
The set value for light intensity may also be set directly on the AS 315 N.

Display:
The current set and actual value of light intensity, the switch value (1/0) and the automated sun system appear on the display for each façade.

1.1.2 Twilight System

Description:
The sun blind is regulated as a privacy screen at night, depending on the twilight. The automated twilight system maybe turn off if desired, or it maybe set to shut off during a defined period of time. A constant hysteresis of 25% of the set value is programmed when switched back (see “Sun System”). The current twilight value is transmitted to the bus.

ETS-Settings:
The automated twilight system, the response and delay time, the set and switch values are set via ETS parametering.

Direct Settings:
The set value for twilight and the automated twilight system may also be set directly on the AS 315 N.

Display:
The current set and actual value of twilight, the switch value (1/0) and the automated twilight system appear on the display.

1.1.3 Wind System

Description:
The sun blind and window unit are protected from excessive wind velocity. The wind object is a safety object. To simplify the design, it has been equipped with two links:
Wind link with rain:
During rain, both wind and rain object transmits a telegram; when the wind threshold level has been exceeded, only the affected wind objects transmit a telegram. For example, the window unit should move into safety position, during both wind and rain. When linking wind with rain, only the wind object needs to be assigned a group address.

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1.1.3 Wind System

Wind link with outside temperature: During low temperatures, both outside temperature and wind objects transmit a telegram; when the wind threshold level has been exceeded, only the affected wind objects transmit a telegram.
The current wind velocity is sent to the bus.

ETS Settings:
The transmitting of priority telegrams (safety), the response and delay time, the set and switch values are individually set for each façade via ETS parametering.

Direct Settings:
The current value set for the wind velocity, as well as the actual value, may also beset for each façade directly on the AS 315 N, if allowed by the ETS parametering.

Display:
The current set and actual value of wind velocity, as well as the switch value (1/0),appearon the display for each façade.

1.1.4 Rain System

Description:
The sun blind and window unit should be protected from rain. The rain system is activated immediately by rain. The rain sensor is heated, and the rain system remains active until the rain on the sensor has dried (natural delay time). An additional delay time may also be set. The rain object is a safety object.

ETS Settings:
The transmitting of priority telegrams (safety), the switch value and delay time are individually set via ETS parametering.

Display:
Rain is shown on the display with a rain symbol.

1.1.5 Temperature System

Attention: ***In the case of a measured outside temperature deviating slightly from a reference value, this maybe rectified as needed on the unit (see "Display Operation"). From time to time, compare the measured value with that registered by a thermometer.***

Description:
Depending on the outside temperature, it is possible for the sun blind and window unit to be protected from icing, for example. The outside temperature object is a safety object, and maybe linked with the rain object (antifreeze function): During rain, and when the temperature sinks below the outside-temperature threshold value, the outside temperature object transmits a telegram. By using the optional inside temperature sensor, the winter garden window maybe opened or closed, for example – depending on the inside temperature – or the sun blind maybe activated, once the winter garden reaches a certain inside temperature.
The current outside and inside temperatures are sent to the bus.

The hysteresis is adjustable, and it is only taken into account when switched back:
Example 1 (outside temperature): The set value is 0°C and that for hysteresis is 2°C.The outside temperature object transmits a telegram, when the temperature falls below 0°C, and when it exceeds 2°C.
Example 2 (inside temperature): The set value is 20°C and that for hysteresis is 2°C.The inside temperature object transmits a telegram, when the temperature exceeds20°C, and when it falls below 18°C.

1.1.5 Temperature System

ETS Settings:
The transmitting of priority telegrams (safety) (only for outside temperature), the hysteresis, the set and switch values, as well as links (only for outside temperature), are individually set via ETS parametering.

Direct Settings:
The temperature set value can also be set directly on the AS 315 N.

Display:
The current set and actual value for temperature, as well as the switch value (1/0),appearonthe display.

1.1.6 Forced Ventilation

Description:
During a defined period of time, the window can be opened for ventilation. If the temperature sinks below the set threshold value, the ventilation process is interrupted. The temperature sensor maybe selected (outdoor or inside temperature). The hysteresis maybe set and is only taken into account when switched back (see 1.1.5 “Temperature System”).

ETS Settings:
The temperature sensor, the hysteresis, the set and switch values, as well as ventilation time, are all set via ETS parametering.

Direct Settings:
The temperature set value can be set directly on the AS 315 N.

Display:
The current set and actual value for temperature, the defined time period, as well as the switch value (1/0), appear on the display.

1.1.7 Time Control

Description:
The sun blind and window unit are controlled via time-switch commands. Four switch commands are possible per day: For working days and weekends, different times are possible. The time of day and date are sent to the bus. The integrated GPS receiver in the weather station automatically sets the time and date. When receiving the GPS signal, an antenna symbol appears on the display. When no signal is being transmitted, time and date can be set manually (see 3.2 “Altering Parameters”).

ETS Settings:
Switch days, times and values can be set via ETS parametering.

Display:
The current switch time and the switch value (1/0) appear on the display.

1.1.8 Switch Values

Eight switch values are available, when defining the telegram:

1/0: A“1” is transmitted during the relevant event, and a “0” is transmitted once the event is over.

0/1: A“0” is transmitted during the relevant event, and a “1” is transmitted once the event is over.

1/-: A“1” is transmitted during the relevant event, with no reaction once the event is over.

0/-: A“0” is transmitted during the relevant event, with no reaction once the event is over.

-/1: No reaction transmitted during the relevant event, with a “1” transmitted once the event is over.

-/0: No reaction transmitted during the relevant event, with a “0” transmitted once the event is over.

1.1.9 SafetyObjects

The wind, rain and outside-temperature objects are safety objects, which transmit either cyclical (switch value always 1/0) or static (switch value adjustable) telegrams to the bus.

1.1.10 Response Time / DelayTime

When the set value is exceeded continually for a certain (adjustable) period of time (response time), a telegram is transmitted. When the set value (in regard to the hysteresis for light intensity and temperature) continually remains below the value for longer than the set time (delay time), a telegram is transmitted.

1.2 Sensor Monitoring

Monitoring the Weather Station:
During signal transmission between the EIB Combi-sensor AS 315 N and the weather station, a star symbol blinks on the start page of the display, and Object 29 transmits a “0”.
When there is no signal transmission between the EIB Combi-sensor AS 315 N and the weather station, a star symbol lights up on the start page of the display, and Object 29 transmits a “1”.
In addition, “--“ appears on the display as the current value. In such a case, the connection should be checked.

Monitoring the Wind Sensor and the Three Sun Sensors:
In the event of a defective wind or sun sensor, as the case maybe, Object 29 transmits a “1” (The star symbol continues to blink, nevertheless). The weather station should be checked.

1.3 Transmitting of Real Value (Actual Value) to the Bus

Light Intensity/ Wind / Temperature:
The real value for light intensity (sun east, south, west, as well as twilight), wind velocity, outside temperature and the optional inside temperature maybe sent to the bus (2 Bytes). They are transmitted either cyclically or on command. With the setting “cyclic transmission”, real values for the light intensity and temperature are transmitted at the set transmission time; additional transmissions occur, when the value rises above or sinks below the set value. In the case of wind, the maximum wind velocity registered since the previous transmission is then transmitted at the set time. When the set value is exceeded, the current wind velocity is transmitted. With the setting “transmit on command”, all real values are transmitted, if a “1” has been transmitted to the object “request real value”.

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1.3 Transmitting of Real Value (Actual Value) to the Bus

Time and Day:
The time and date maybe transmitted to the bus either cyclically or on command (3 Bytes).
With the setting “cyclic transmission”, time and date are transmitted at the set transmission time. With the setting “transmit on command”, time and date are transmitted, if a “1” has been transmitted to the object “request time and date”.

1.4 Summertime / Wintertime

Summertime or wintertime, as the case maybe, can be defined in the parameter settings. When it is time for the clocks to change, Object 28 transmits a 1-bit telegram (“1” for summertime and “0” for wintertime). “S” appears on the display for summertime, “W” appears on the display for wintertime.

1.5 Reaction during Power-up / Bus Reset

There are two possibilities:
- “No Reaction”: During power-up/bus reset, weather conditions are compared with the settings, and – taking into account the response time or delay time, as the case may be – telegrams are then transmitted

- “Transmit Current Status”: During power-up/bus reset, weather conditions are compared with the settings, and telegrams are immediately transmitted (regardless of the response time).

1.6 Demo Mode

The Demo Mode can beset directly on the AS 315 N (see 4.2 “Altering Parameters”). In the Demo Mode, response and delay times are shortened. Minutes are changed to seconds. The Demo Mode remains active until it is switched off.

Caution!

The Demo Mode is intended only for testing the installation, and should under no circumstances be used for continuous operation.

2 Insallation

Attention: ***Work on the 230V network may only be undertaken by electricians (in accordance with the VDE 0100 – Association of German Electrical Engineers). The operating voltage may only be switched in once the installation process has been completed. Work on the EIB bus may only be undertaken by trained electricians. Installing and connecting the bus line, as well as application units, must conform to current guidelines of DIN/VDE (German Standards Institution / Association of German Electrical Engineers), as well as installation instruction from the EIB handbook of the ZVEI / ZVEH.***

The *EIB* Combi-sensor AS 315 N is intended for installation in a distribution box upon symmetrical mounting hardware (35 mm in accordance with the German Standards Institution / European Standards 50022). In order to prevent contact with parts carrying voltage, the installed mounting hardware is to be fitted with a protective cover, in accordance with European Standards 60335-1, Section 8.

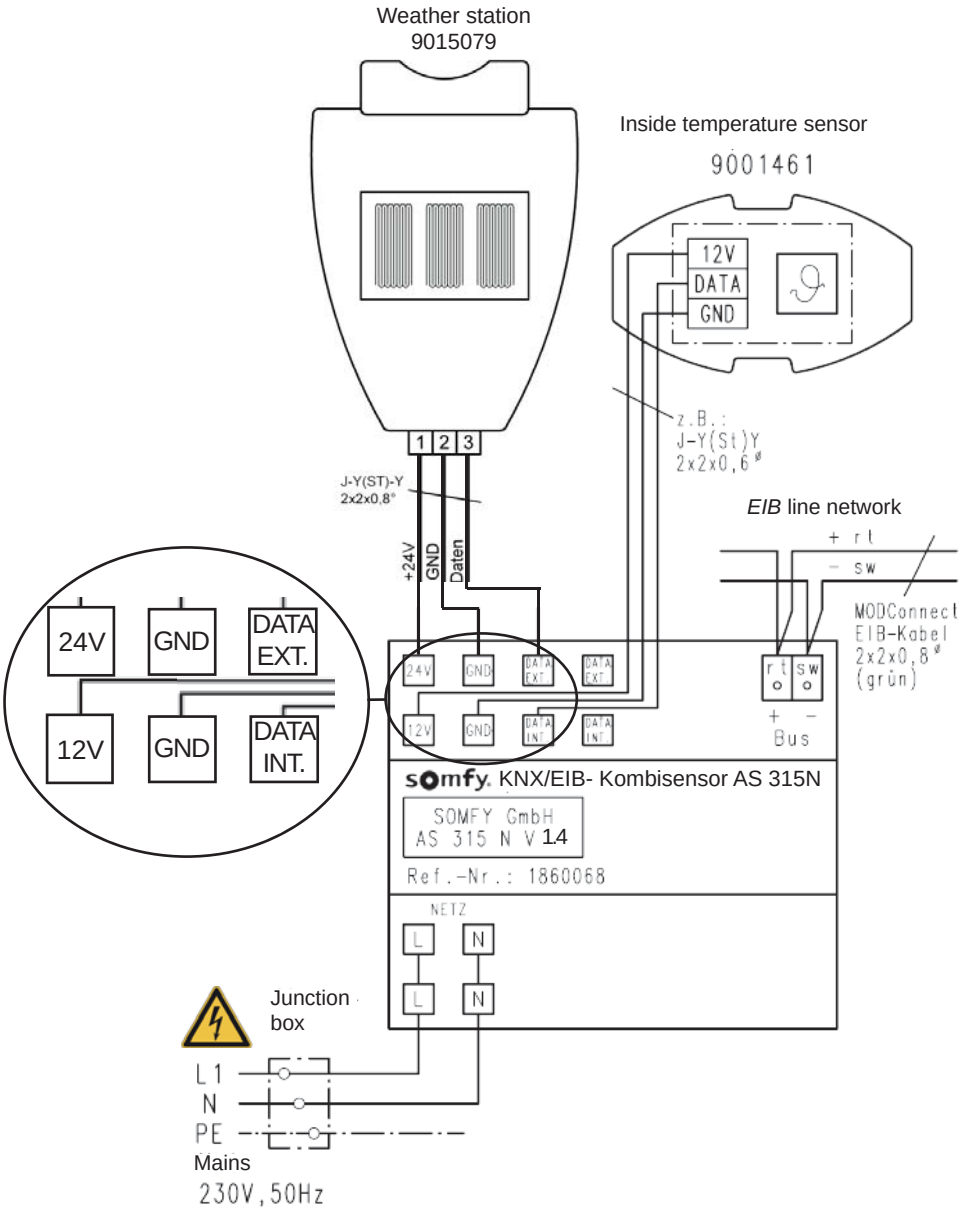
When the installation of the weather station takes place, this unit must be positioned correctly. Please read the accompanying operating manual for the weather station.

When using more than one *EIB* Combi-sensor AS 315 N, each controlling unit must be run with its own weather station. The installation must take into consideration the separation of the sensor line and network supply line.

Recommended line type and maximum line length:

Weather Station:
• J-Y(ST)Y 2 x 2 x 0,8 and 30 meters

Inside Temperature Sensor:
• J-Y(ST)Y 2 x 2 x 0,8 and 300 meters


Weather station
9015079
Inside temperature sensor
9001461
12V
DATA
GND
z.B.:
J-Y(St)Y
2x2x0,6ø
1 2 3
J-Y(ST)-Y
2x2x0,8°
+24V
GND
Daten
EIB line network
+ rt
- sw
MODConnect
EIB-Kabel
2x2x0,8ø
(grün)
24V
GND
DATA EXT.
12V
GND
DATA INT.
rt sw
+ -
Bus
somfy KNX/EIB- Kombisensor AS 315N
SOMFY GmbH
AS 315 N V 14
Ref.-Nr.: 1860068
NETZ
L
N
Junction box
L1
N
PE
Mains
230V,50Hz

3 Start-Up

The EIB Combi-sensor AS 315 N maybe found in the data bank, listed under the product family “Physical Sensors” and “Product Type – Light Intensity”. Programming ETS applications can be carried out with the applied bus voltage, even without a 230V voltage supply.

- Façade 1 corresponds to the East Façade.
- Façade 2 corresponds to the South Façade.
- Façade 3 corresponds to the West Façade.

3.1 Object Description

No.	Name	Type	Description
0	Sun Command 1	1 Bit	Transmits a telegram, depending on the light intensity (measured on Façade 1) and the parameter settings.
1	Sun Value 1	2 Bytes	Transmits current light intensity (as measured on Façade 1).
2	Automated Sun System 1	1 Bit	Switches the automated sun system for Façade 1 on with “1” and off with “0”.
3	Wind Command 1	1 Bit	Transmits a priority telegram, depending on the wind velocity and parameter settings for Façade 1.
4	Sun Command 2	1 Bit	The same as with Object 0, but corresponding to Façade 2 instead of 1.
5	Sun Value 2	2 Bytes	The same as with Object 1, but corresponding to Façade 2 instead of 1.
6	Automated Sun System 2	1 Bit	The same as with Object 2, but corresponding to Façade 2 instead of 1.
7	Wind Command 2	1 Bit	The same as with Object 3, but corresponding to Façade 2 instead of 1.
8	SunCommand 3	1 Bit	The same as with Object 0, but corresponding to Façade 3 instead of 1.
9	Sun Value 3	2 Bytes	The same as with Object 1, but corresponding to Façade 3 instead of 1.
10	Automated Sun System 3	1Bit	The same as with Object 2, but corresponding to Façade 3 instead of 1.
11	Wind Command 3	1 Bit	The same as with Object 3, but corresponding to Façade 3 instead of 1.
12	Wind Value	2 Bytes	Transmits the current wind velocity.
13	Rain Command	1 Bit	Transmits a priority telegram, depending on rain and the parameter settings.
14	Twilight Command	1 Bit	Transmits a telegram, depending on twilight and parameter settings.
15	Twilight Value	2 Bytes	Transmits the current half-light value.
16	Twilight-Automated System	1 Bit	Switches the twilight automated system on with a “1” and off with a “0”.

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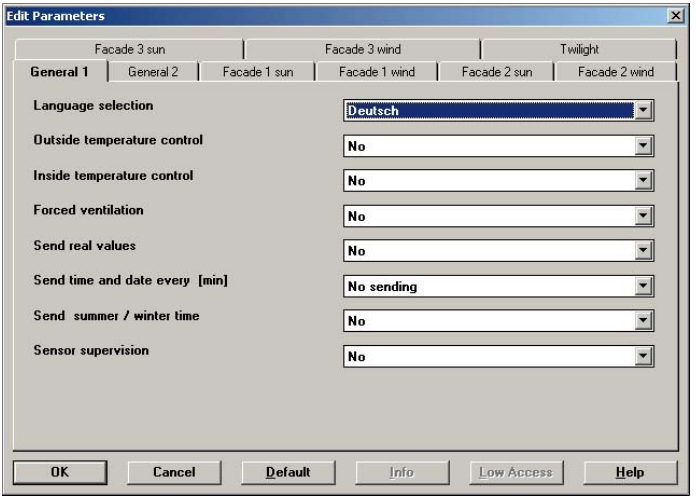
3.1 Object Description

No.	Name	Type	Discretion
17	Outside Temperature Command	1 Bit	Transmits a priority telegram, depending on outside temperature and parameter settings
18	Outside Temperature Value	2 Bytes	Transmits the current outside temperature.
19	Inside Temperature Command	1 Bit	Transmits a priority telegram, depending on inside temperature and parameter settings.
20	Inside Temperature Value	2 Bytes	Transmits the current inside temperature.
21	Forced Ventilation	1 Bit	Transmits a telegram within an adjustable Time-period setting and in regard to Temperature.
22	Clock Channel 1	1 Bit	Transmits a telegram, depending on the adjustable switch-time settings
23	Clock Channel 2	1 Bit	See Object 22.
24	Time of Day	3 Bytes	Transmits the time.
25	Date	3 Bytes	Transmits the date.
26	Request Time and Date	1 Bit	When a “1” telegram is received, Objects 24 and Date and 25 transmit the time and date.
27	Request Real Value	1 Bit	When a “1” telegram is received, Objects 1, 5, 9, 12, 15, 18 and 20 transmit their current values.
28	Summertime / Wintertime	1 Bit	Transmits a “1” for summertime and a “0” for wintertime.
29	Sensor Monitoring	1 Bit	Transmits a “1” telegram, when there is no signal transmission with the weather station and/or when the wind and sun sensors are defective. The object transmits a “0” telegram, when the situation is the other way around.

3.2 ETS Parameter Description

(The default settings are shown in italics.)

3.2.1 "General 1" Register



Language Selection: ***Deutsch*/English/Francais/Italiano** for the language on the display.

Temperature Control Outside & Inside: **yes/*no***
"yes": The index file "Outside or Inside Temperature" appears on the display, along with Objects 17 and 18, or 19 and 20 as the case maybe (See1.1.5).

Forced Ventilation: **yes/*no***
"yes": The index file "Forced Ventilation" and Object 21 appear on the display (see 1.1.6).

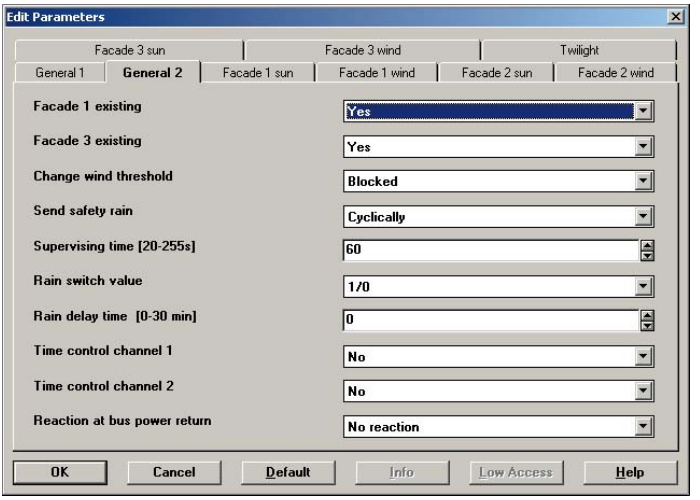
Send Real Values: **yes/*no***
"no": Objects 1, 5, 9, 12, 15, and 27 disappear from the display.
"yes": The following maybe selected:
Real value is to be transmitted every [min]:
Reqest/ 1, 5, 10, 15, 30, 60 :
"request": Objects 1, 5, 9, 12, 15, 18, 20 and 27 appear on the display.
"Transmit every… minutes": Objects 1, 5, 9, 12, 15, 18, 20 and 27 appear on the display (see 1.3).

Send Time and Date every [min]: ***do not transmit* / request / 1, 10, 60**
"do not transmit": Objects 24 through 26 disappear from the display.
"request": Objects 24 through 26 appear on the display.
"Transmit every… minutes": Objects 24 through 26 appear on the display (see 1.3).

Send Summer/ Winter time: **yes/*no***
"yes": Setting of the summertime. Make sure that the correct date is entered (Day. Month – Day. Month). Object 28 appears on the Display (see 1.4).

Sensor Supervision: **yes/*no*** Object 29 appears on the display (see 1.2).

3.2.2 "General 2" Register



Façade 1 existing &
Façade 3 existing: ***yes* / no**
Façade 1 corresponds to the East Façade. Façade 3 corresponds to the West Façade. Façade 2 is always available! "yes": The index files "Façade 1 Sun or Façade 3 Sun", "Façade 1 Wind or Façade 3 Wind," as well as Objects 0, 2, 3 or 8, 10, 11 appear on the display.

Change wind threshold: **allowed /*blocked***
Allows or locks editing of the set value for wind velocity directly on the AS 315 N.

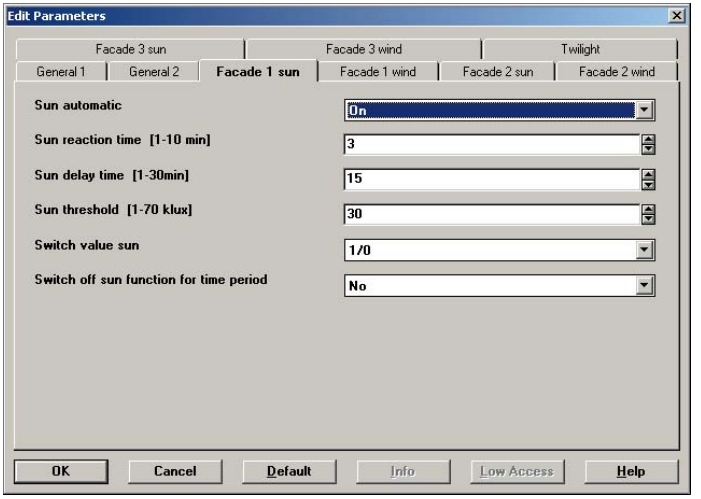
Send safety rain: ***cyclically* / static**
"cyclical": Monitoring time setting (settings between 20 and 255 sec.). The rain switch value is fixed (1/0).
"static": Settings of the rain switch value,
selected from 1/0,1/-, 0/1, 0/-, -/1, -/0 (see 1.1.9).

Rain Delay Time: **[*0* - 30 Min]**
Delaytime setting (see 1.1.10)

Time Control Channel 1
Time Control Channel 2: **yes/*no***
"yes": Index file "Clock Channel 1" or" Clock Channel 2" along with Object 22 or 23 appear on the display (see 1.1.7).

Reaction at Bus Power
Return: ***no reaction* / transmit current conditions**
Settings for the desired reaction (see 1.5).

3.2.3 “Façade 1 Sun” through “Façade 3 Sun” Register(see 1.1.1)



Sun Automatic: ***on*/ off**
“yes”: Objects 0, 2 or 4, 6 or 8, 10 disappear from the display.

Sun Reaction Time: **[1 - 10 min]**
Response time setting
(default value = 3 min.) (see 1.1.10).

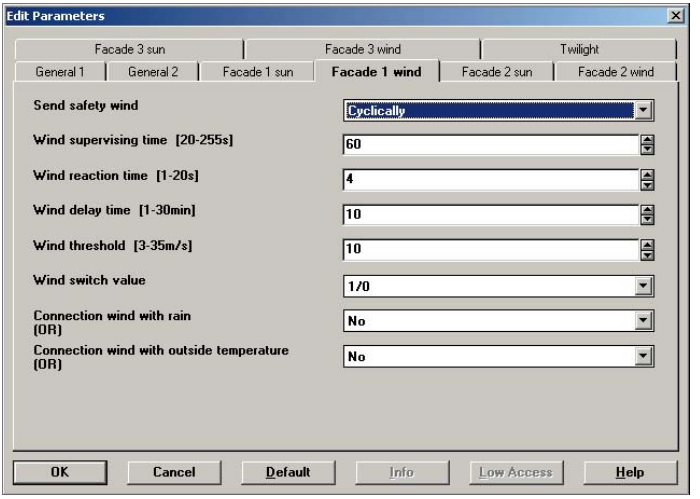
Sun Delay Time: **[1 - 30 min]**
Delay time setting (default value = 15)
(see 1.1.10).

Sun Threshold: **[1 - 70 kLux]:**
Set value setting
(default value = 30kLux).

Switch Value Sun: ***1/0*, 1/-, 0/1, 0/-, -/1, -/0**
Switch value setting (see 1.1.8).

Switch off Sun Function for Time Period: **yes/*no***
“yes”: Time period setting, where by the sun system is switched off. Make sure that the correct time is entered: hour:minute – hour:minute. In the event of incorrect entries, the EIB Combi-sensor AS 315 N sets the time period at 00:00 to 00:00. There is no reaction, when the start and finish times are the same.

3.2.4 “Façade 1 Wind” through “Façade 3 Wind” Register (see 1.1.3)



Send Safety Wind: ***cyclically*/static**
“cyclical”: Monitoring time setting (settings between 20 and 255 sec., default value = 60s). The switch value is fixed (1/0). “static”: Settings of the switch value, selected from 1/0, 1/-, 0/1, 0/-, -/1, -/0 (see 1.1.9).

Wind Reaction Time: **[1 - 20 s]**
Response time setting (default value = 4 sec.)
(see 1.1.10)

Wind Delay Time: **[1 - 30 min]**
Delay time setting (default value = 10 min.)
(see 1.1.10

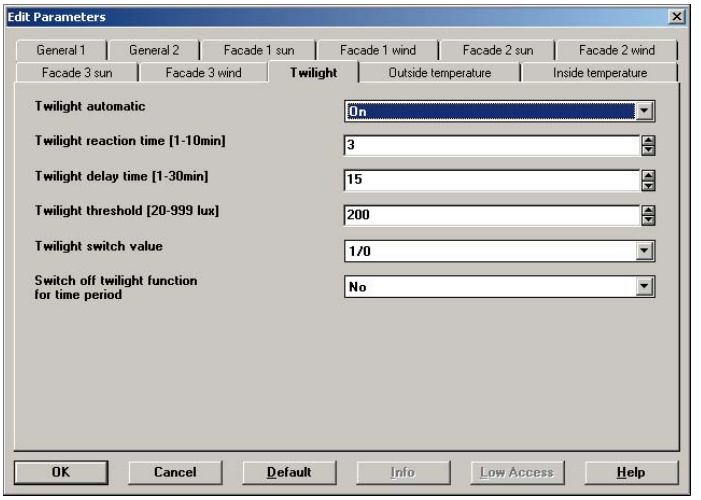
Wind Threshold: **[3 - 35 m/s]**
Set value setting (default setting = 10 m/s).

Wind Switch Value: ***1/0*, 1/-, 0/1, 0/-, -/1, -/0**
Setting of the switch value only in the case of “Static Transmission Wind Safety” (see 1.1.8).

Connection Wind with Rain: **yes/*no***
[OR] The link may be set as desired.

Connection Wind with Outside Temperature: **yes/*no***
[OR] The link may be set as desired.

3.2.5 “Twilight” Register (see 1.1.2)



Twilight Automatic: ***on*/off**
“yes”: Objects 14 and 16 disappear from the display.

Twilight Reaction Time: **[1 - 10 min]**
Response time setting
(default value = 3 min.).

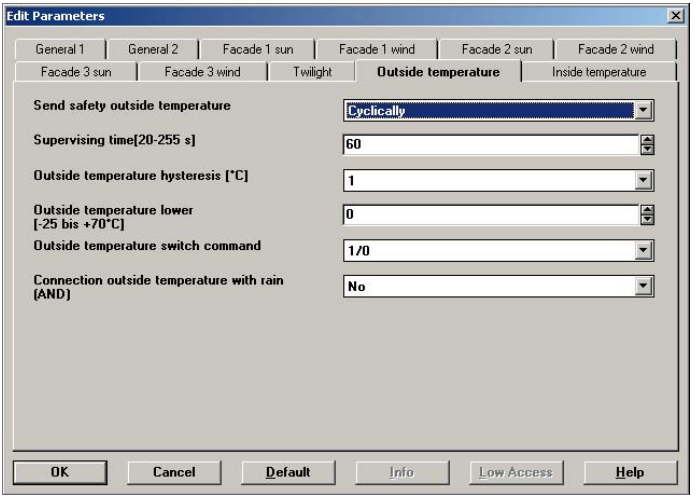
Twilight Delay Time: **[1 - 30 min]**
Delay time setting (default value = 15 min.)
(see 1.1.10).

Twilight Threshold **[20 - 999 Lux]:**
Set value setting
(default value = 200 Lux).

Twilight Switch Value: **1/0, 1/-, 0/1, 0/-, -/1, -/0**
Switch value setting
(see 1.1.8).

Switch Off Twilight Function for Time Period: **yes/*no***
“yes”: Time period setting, where by the twilight system is switched off. Make sure that the correct time is entered: hour : minute – hour : minute. In the event of incorrect entries, the *EIB* Combi-sensor AS 315 N sets the time period at 00:00 to 00:00. There is no reaction, when the start and finish times are the same.

3.2.6 “Outside Temperature” Register (see 1.1.5)



Send Safety Outside Temperature:

***cyclically*/ static**
“cyclical”: Monitoring time setting (settings between 20 and 255sec.).
The switch value is fixed (1/0).
“static”: Settings of the switch value,
selected from 1/0, 1/-, 0/1, 0/-, -/1, -/0 (see 1.1.9).

Outside Temperature Hysteresis [°C]:

Hysteresis setting between 1°C and 5°C
(default value = 1°C).

Outside Temperature Lower [-25 – 70° C]:

Set value setting
(default value = 0 °C).

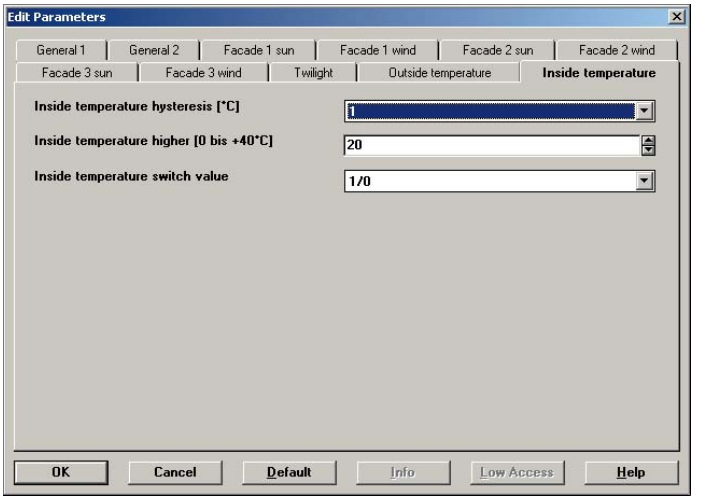
Outside Temperature Switch Command:

***1/0*, 1/-, 0/1, 0/-, -/1, -/0**
Setting of the switch value only in the case of “Static Transmission Outside-Temperature Safety”
(see1.1.8).

Connection Outside Temperature with Rain: [AND]

yes/*no*
The link may be set as desired.

3.2.7 “Inside Temperature” Register (see 1.1.5)

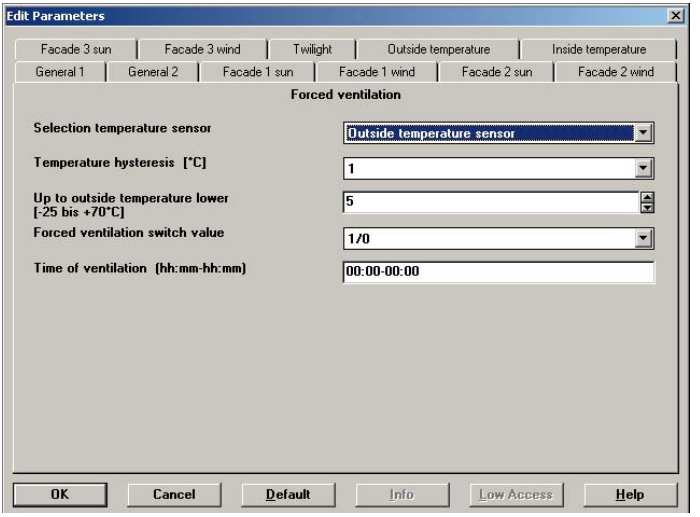


Inside Temperature Hysteresis [°C]: Hysteresis setting (default value = 1°C).

Inside Temperature Higher [0 - 40°C]: Set value setting (default value = 20°C).

Inside Temperature Switch Value: **1/0, 1/-, 0/1, 0/-, -/1, -/0**
Switch value setting (see 1.1.8).

3.2.8 “Forced Ventilation” Register(see 1.1.6)



Selection Temperature Sensor: ***Outside temperature sensor / Inside temperature sensor***
“Inside temperature sensor” is only to be selected, if the inside temperature sensor has been connected.

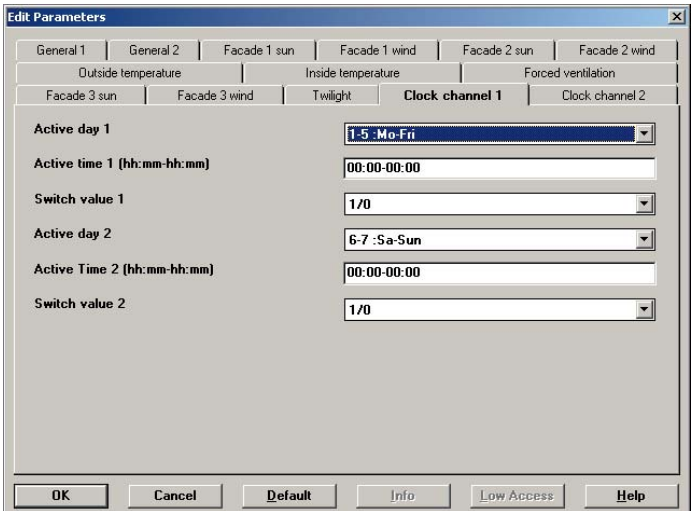
Temperature Hysteresis [° C]: Hysteresis setting
(default value = 1°C).

Up to Outside Temperature Lower [-25 - +70°C] or Inside Temperature Lower[0 – 40°C]: Set value setting
(default value = 5°C or 15°C, as the case maybe).

Forced Ventilation Switch Time: ***1/0,*** **0/1**
Switch value setting
(see 1.1.8).

Function for the Ventilation Time Period: **[hh:mm-hh:mm]**
Time period setting, where by the forced-ventilation system is activated. Make sure that the correct time is entered: hour : minute – hour : minute. In the event of incorrect entries, the *EIB* Combi-sensor AS 315 N sets the time period at 00:00 to 00:00.
There is no reaction, when the start and finish times are the same.

3.2.9 “Clock Channel 1” or “Clock Channel 2” Register (see 1.1.7)



Active Day 1: ***1 – 5: Mo - Fr,*** **1 – 7: Mo - Sun, 5 - 6: Sa – Sun**
Setting for the first active days
(= day on which the following switch times are in effect).

Active Time 1: **[hh:mm – hh:mm]:**
Switch-time setting for the first active days. Make sure that the correct time is entered: hour : minute – hour : minute. In the event of incorrect entries, the *EIB* Combi-sensor AS 315 N sets the time period at 00:00 to 00:00. There is no reaction, when the start and finish times are the same.

Switch Value 1: ***1/0,*** **1/-, 0/1, 0/-, -/1, -/0**
Switch value setting for the first active days (see 1.1.8).

Active Day 2: **not, 1 – 5: Mo – Fr, 1 - 7: Mo – So,** ***5 – 6: Sa – Sun***
Setting for the second active days
(= day on which the following switch times are in effect).

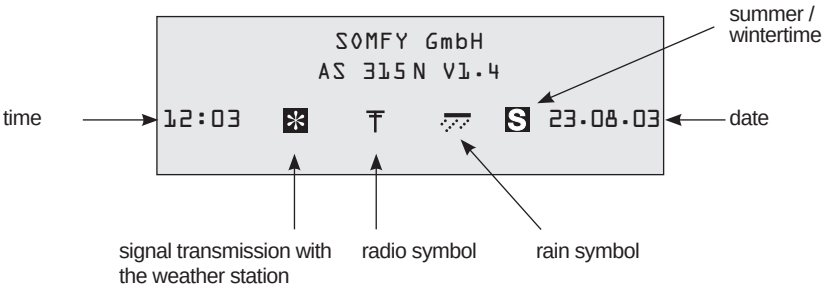
Active Time 2: **[hh:mm – hh:mm]**
Switch-time setting for the second active days. Make sure that the correct time is entered: hour : minute – hour : minute. In the even to fin correct entries, the *EIB* Combi-sensor AS 315 N sets the time period at 00:00 to 00:00. There is no reaction, when the start and finish times are the same.

Switch Value 2: ***1/0,*** **1/-, 0/1, 0/-, -/1, -/0 :**
Switch value setting for the second switch days (see 1.1.8).

4 Display Operation

4.1 Display

The only functions that are displayed are those which have been set in ETS parametering. When an object is not linked, the switch value is displayed as "--". When switched on, or following projecting (download), the start page appears on the display:



Blinking Star Symbol: There is signal transmission.
Permanent Star Symbol: No signal transmission.

Display of Radio Symbol: There is GPS reception. The time and date are then set automatically.
Radio Symbol Not Displayed: There is no GPS reception. The time and date must be set manually.

The rain symbol only appears when it rains, and it remains on the display until the dampness evaporates from the heated rain sensor.

The "menu" key retrieves the following pages:

Page „Wind ":

Wind:	W1	W2	W3
Set Value:	20	10	20
Current Value:	15		
[m/s]:	0	1	0

Wind-velocity
← -wind-velocityset value
← -current wind-velocity
← -wind-velocityswitch values

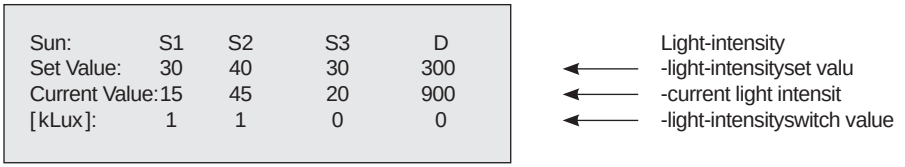
W1, W2, W3: Wind for Facades 1, 2, and 3

↓ "menu" key

go on to the next page

4.1 Display

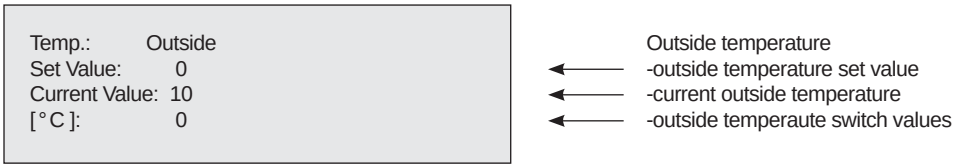
Page „Light Intensity“:



S1, S2, S3: Sun for Facades 1, 2 and; D: Twilight

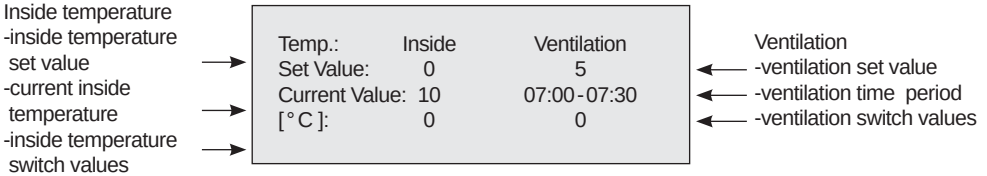
“menu” key

Page „Outside Temperature“:



“menu” key

Page „Inside Temperature” and „Ventilation”“:



“menu” key

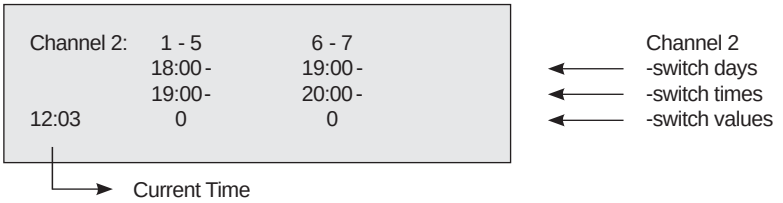
Page „Clock Channel 1“:

“menu” key

go on to the next page

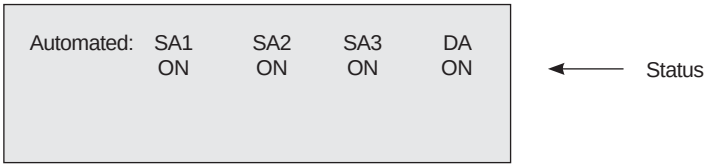
4.1 Display

Page „Clock Channel 2“:



„menu“ key

Page „Automated System“:



SA1, SA2, SA3: Automated sun system for Facades 1, 2 und 3; DA: Automatic twilight system

„menu“ key

Page „Language“:

4.2 Altering Parameters

Select the desired menu with the “menu” key. Activate the edit mode with the “set” key. Press down the “set” key the number of times necessary, until the desired value to be altered is displayed as inverted. The value is altered with the keys “+” and “-“. If the “set” key is pressed once again, the next value on the page maybe altered. If the “menu” key is pressed, then the edit mode is exited and the next page appears.

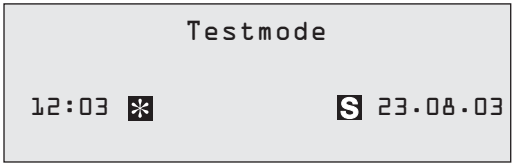
The following values maybe altered directly on the display:

- Date and Time attention: After altering the date and time, press down the “set” key the number of times necessary, until year is no longer displayed as inverted. If the “menu” key is pressed after the value has been altered, the change is not saved.
- Sun set value for Facades 1 through 3
- Twilight set value
- Wind set value for Facades 1 through 3 (provided that you have allowed this within the ETS parametering)
- Outside temperature set value
- Outside temperature current value

Note:

It is possible that the current value, measured on the weather station, sets it self in correctly. In order to correct to current value, press the “menu” the number of times necessary, until the “Outside Temperature” page is reached. Press the “set” key, and then press the “+” and “-” keys simultaneously: The current value, as measured on the weather station, appears inverted on the last line of the display. Alter the value with the “+” and “-” keys. Press the “set” key, in order to save the new value.

- Inside temperature set value
- Temperature set value for the forced ventilation
- Automated sun system for Facades 1 through 3, switch on/off
- Automated twilight system, switch on/off
- Display language
- Demo mode settings: On the start page, press the “+” and “-” keys simultaneously for one second. To exit the demo mode, press the “+” and “-” keys simultaneously for one second.
  The following page is displayed:



5 Technical Data

***EIB*-Combi-sensor AS 315 N SET, including Weather Station**

Article Number:	1 860 069
Operating Voltage:	230 V / 50 Hz
Max. Supply Voltage:	6,3 W
Degree of Protection:	IP 20
Protection Class:	II
Environmental Conditions:	normal
Temperature Range:	- 5° C to + 45° C
Dimensions (H x W x D):	90 x 59 x 140 mm
Meets EMC Requirements:	*EIB*-guideline according to the KNX- handbook, edition 1.0
Conformity to CE Standards:	EN 50090-2-2 Interface Signal Emission EN 50090-2-2 Interface Immunity

Inside Temperature Sensor

Article Number:	9 001 461
Degree of Protection:	IP 20
Range of Measurement	0° C to + 50° C

6 Notes

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