EIB–Kombisensor
AS 315 N

OPERATING
MANUAL

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

Contents

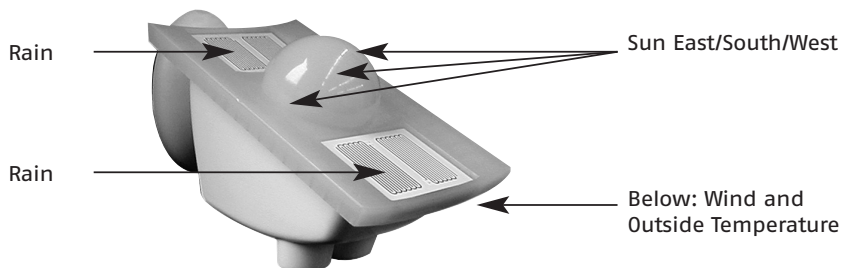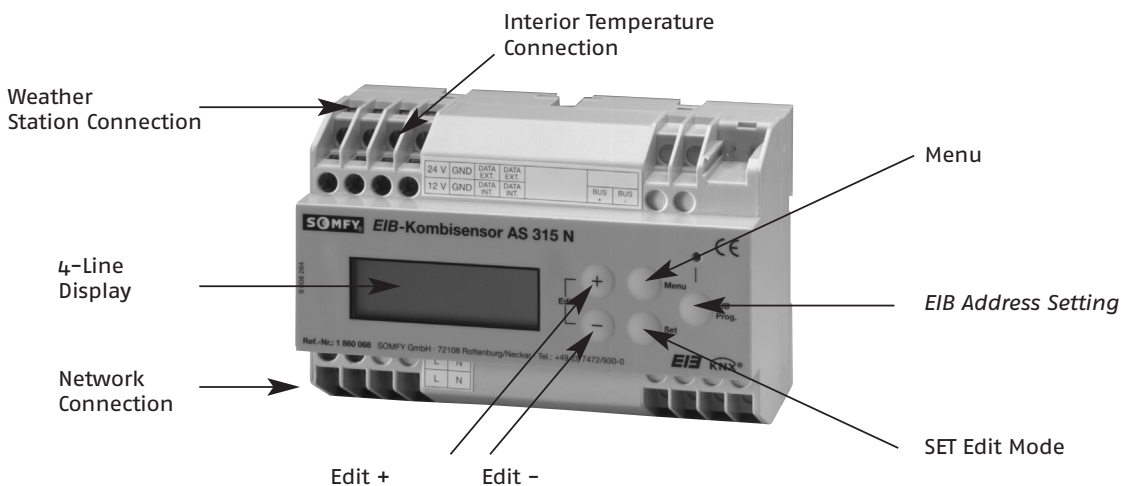*The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.*

1. <u>Description</u>

The *EIB* Kombisensor 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* Kombisensor AS 315 N receives the following weather information via the weather station connected to it: Brightness from the east, south and west; half–light; wind velocity; rain; outside temperature; time of day and date (via the DCF receiver). The weather station is continuously monitored. An interior–temperature sensor may also be connected (for the winter garden, for example), as an optional feature. The EIB Kombisensor 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 may be regulated both via the ETS and directly on the AS 315 N.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

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 may be turn off if desired, or it may be 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 Half-Light System

Description:
The sun blind is regulated as a privacy screen at night, depending on the half-light. The automated half-light system may be turn off if desired, or it may be 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 half-light value is transmitted to the bus.

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

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

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

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

4 SOMFY®   *EIB-Kombisensor AS 315 N*

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.
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 be set 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), appear on 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.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

EIB-Kombisensor AS 315 N   SOMFY®   5

1.1.5   Temperature System

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 may be 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 interior temperature sensor, the winter garden window may be opened or closed, for example – depending on the interior temperature – or the sun blind may be activated, once the winter garden reaches a certain interior temperature.
The current outside and interior 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 (interior temperature): The set value is 20° C and that for hysteresis is 2° C. The interior temperature object transmits a telegram, when the temperature exceeds 20° C, and when it falls below 18° C.

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

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), appear on the display.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

6   SOMFY®   *EIB–Kombisensor AS 315 N*

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 may be selected (outdoor or interior temperature). The hysteresis may be 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 DCF receiver in the weather station automatically sets the time and date. When receiving the DCF 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.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

EIB-Kombisensor AS 315 N   SOMFY®   7

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 Safety Objects

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 / Delay Time

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.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

8 SOMFY® *EIB-Kombisensor AS 315 N*

1.2   Sensor Monitoring

Monitoring the Weather Station:
During signal transmission between the *EIB* Kombisensor AS 315 N and the weather station, a star symbol blinks on the start page of the display, and 0bject 29 transmits a "0".
When there is no signal transmission between the *EIB* Kombisensor AS 315 N and the weather station, a star symbol lights up on the start page of the display, and 0bject 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 may be, 0bject 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 half-light), wind velocity, outside temperature and the optional interior temperature may be 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 tempe-rature 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 trans-mitted 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".

Time and Day:
The time and date may be 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 trans-
mitted, if a "1" has been transmitted to the object "request time and date".

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

EIB-Kombisensor AS 315 N   SOMFY®   9

1.4   Summertime / Wintertime

Summertime or wintertime, as the case may be, 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.
Example of this application: If the object "Assign Actuator" for the SOMFY actuator AA 420N / AA 430 AP is linked with Object 28 "Summertime / Wintertime," the actuator moves automatically from Position 2 to Position 3 (or vice versa), when it is time for the clocks to change.

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 be set 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.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

10   SOMFY®   *EIB-Kombisensor AS 315 N*

2. *Installation*

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* Kombisensor 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* Kombisensor 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:
$\sum$J–Y(ST)Y2 x 2 x 0.8 and 130 meters

Interior Temperature Sensor:
$\sum$J–Y(ST)Y2 x 2 x 0.8 and 300 meters
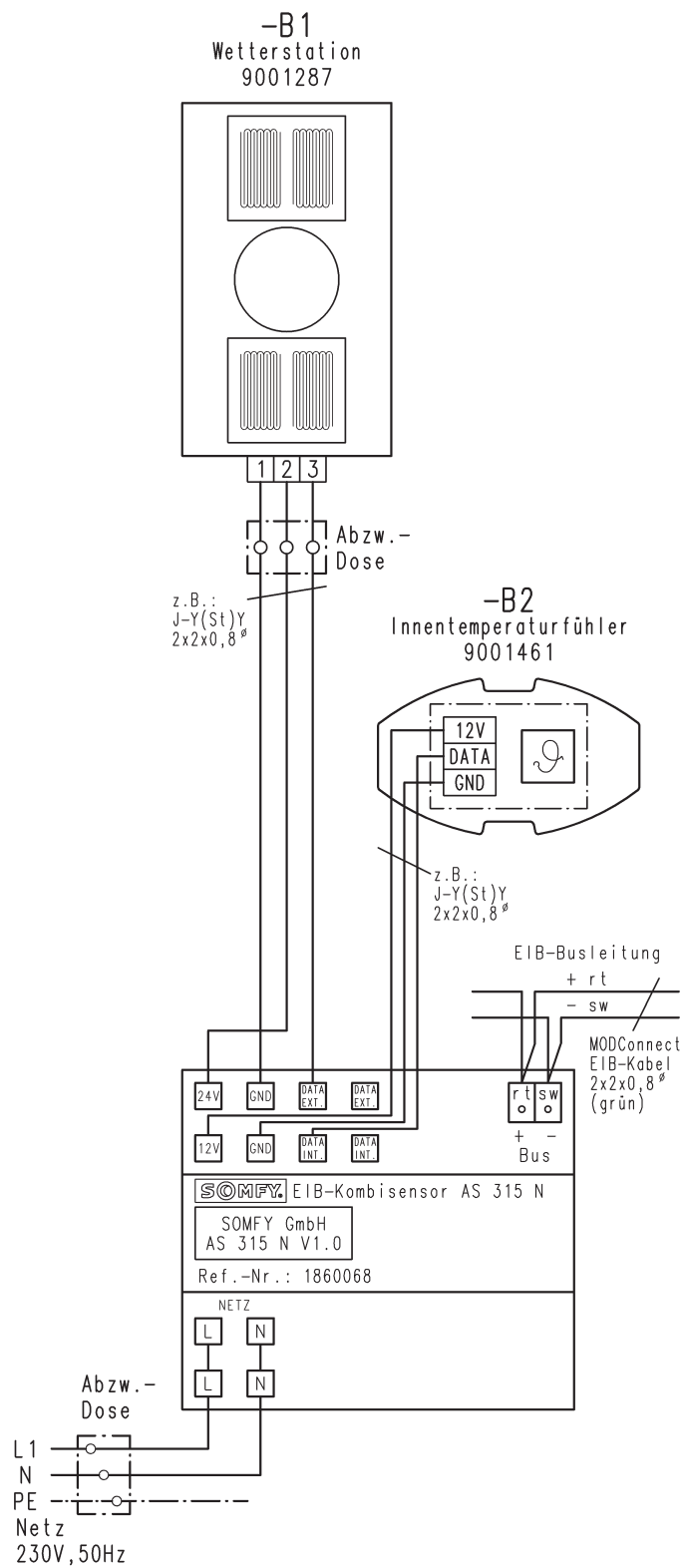
−B1
Wetterstation
9001287

1 2 3

Abzw.−
Dose

z.B.:
J−Y(St)Y
2x2x0,8⌀

−B2
Innentemperaturfühler
9001461

12V
DATA
GND

z.B.:
J−Y(St)Y
2x2x0,8⌀

EIB−Busleitung
+ rt
− sw

MODConnect
EIB−Kabel
2x2x0,8⌀
(grün)

24V GND DATA EXT. DATA EXT.

rt sw

+ −
Bus

12V GND DATA INT. DATA INT.

SOMFY. EIB−Kombisensor AS 315 N

SOMFY GmbH
AS 315 N V1.0

Ref.−Nr.: 1860068

NETZ

L N

L N

Abzw.−
Dose

L1
N
PE
Netz
230V,50Hz

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

3. *Start-Up*

The *EIB* Kombisensor AS 315 N may be 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	Sun Command 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 measured on the West Façade.
10	Automated Sun System 3	1 Bit	The same as with Object 3, but corresponding to Façade 3 instead of 1.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

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	Half–Light Command	1 Bit	Transmits a telegram, depending on half–light and parameter settings.
15	Half–Light Value	2 Bytes	Transmits the current half–light value.
16	Half–Light– Automated System	1 Bit	Switches the half–light automated system on with a "1" and off with a "0".
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	Interior Temperature Command	1 Bit	Transmits a priority telegram, depending on interior temperature and parameter settings.
20	Interior Temperature Value	2 Bytes	Transmits the current interior 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 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.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

14   SOMFY®   *EIB–Kombisensor AS 315 N*

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 & Interior:	**yes / no**
	"yes": The index file "Outside or Interior Temperature" appears on the display, along with Objects 17 and 18, or 19 and 20 as the case may be (See 1.1.5).
Forced Ventilation:	**yes / no**
	"yes": The index file "Forced Ventilation" and Object 21 appear on the display (see 1.1.6).
Transmit Real Values:	**yes / no**
	"no": Objects 1, 5, 9, 12, 15, and 27 disappear from the display.
	"yes": The following may be selected:
	Real value is to be transmitted every [insert number] minutes:
	Request: 1, 5, 10, 15, 30, and 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).
Transmit Time and Date every [insert number] minutes:	
	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).
Transmit Summertime/Wintertime:	
	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 Monitoring:	**yes / no** "yes": Object 29 appears on the display (see 1.2).

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

EIB-Kombisensor AS 315 N

```
Edit Parameters                                                                [x]
┌─────────────┬─────────────┬──────────┬──────────────────┬──────────────────┐
│ Facade 3 sun │ Facade 3 wind │ Twilight │ Outside temperature │ Inside temperature │
├──────────┬──────────┬─────────────┬──────────────┬──────────────┬──────────────┤
│ General 1 │ General 2 │ Facade 1 sun │ Facade 1 wind │ Facade 2 sun │ Facade 2 wind │

   Facade 1 existing            [Yes                            ▼]
   Facade 3 existing            [Yes                            ▼]
   Change wind threshold        [Blocked                        ▼]
   Send safety rain             [Cyclically                     ▼]
   Supervising time [20-255s]   [60                             ▲▼]
   Rain switch value            [1/0                            ▼]
   Rain delay time [0-30 min]   [0                              ▲▼]
   Time control channel 1       [No                             ▼]
   Time control channel 2       [No                             ▼]
   Reaction at bus power return [No reaction                    ▼]

   [  OK  ]  [ Cancel ]  [ Default ]  [ Info ]  [ High Access ]  [ Help ]
```

| Façade 1 Available & Façade 3 Available:	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.
Adjust Set Wind Value:	**allowed / locked**
	Allows or locks editing of the set value for wind velocity directly on the AS 315 N.
Transmit Rain Safety:	**cyclical / 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.]**
	Delay time setting (see 1.1.10)
Clock Control Channel 1 And 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 during Power-Up / Bus Reset:	**no reaction / transmit current conditions**
	Settings for the desired reaction (see 1.5).

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.
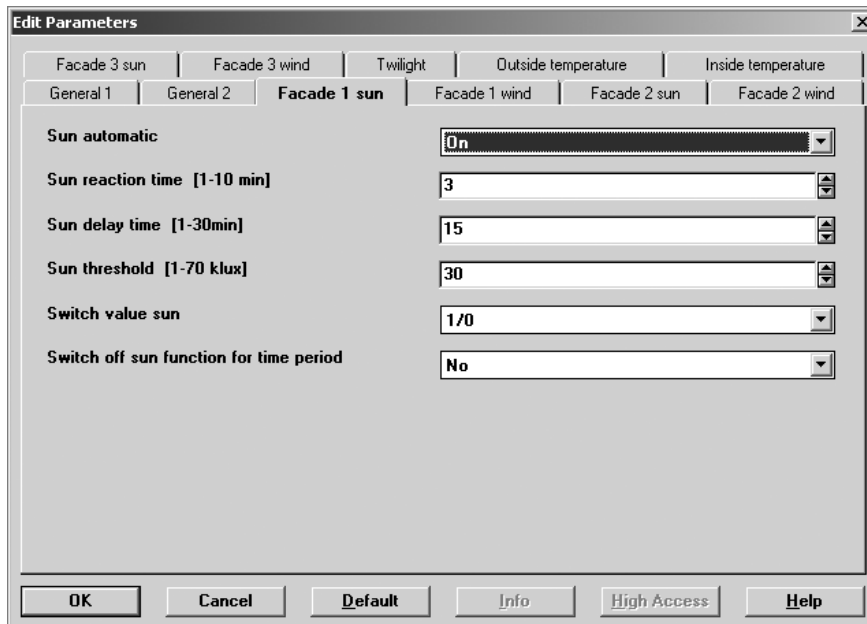
Automated Sun System:	on / off
	"yes": Objects 0, 2 or 4,6 or 8, 10 disappear from the display.
Sun Response Time:	**[1 – 10 min.]**
	Response time setting
	(default value = 3 min.) (see 1.1.10)
Sun Delay Time:	**[1 – 30 min.]**
	Delay time setting (default value = 15)
	(see 1.1.10)
Sun Set Value:	**[1 –70 kLux]**
	Set value setting
	(default value = 30 kLux)
Sun Switch Value:	**1/0, 1/–, 0/1, 0/–, –/1, –/0**
	Switch value setting (see 1.1.8).
Switch Off Sun System	
for Time Period:	**yes / no**
	"yes": Time period setting, whereby 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 Kombisensor 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.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

EIB-Kombisensor AS 315 N   **SOMFY** **17**

3.2.4 "Façade 1 Wind" through "Façade 3 Wind" Register (see 1.1.3)
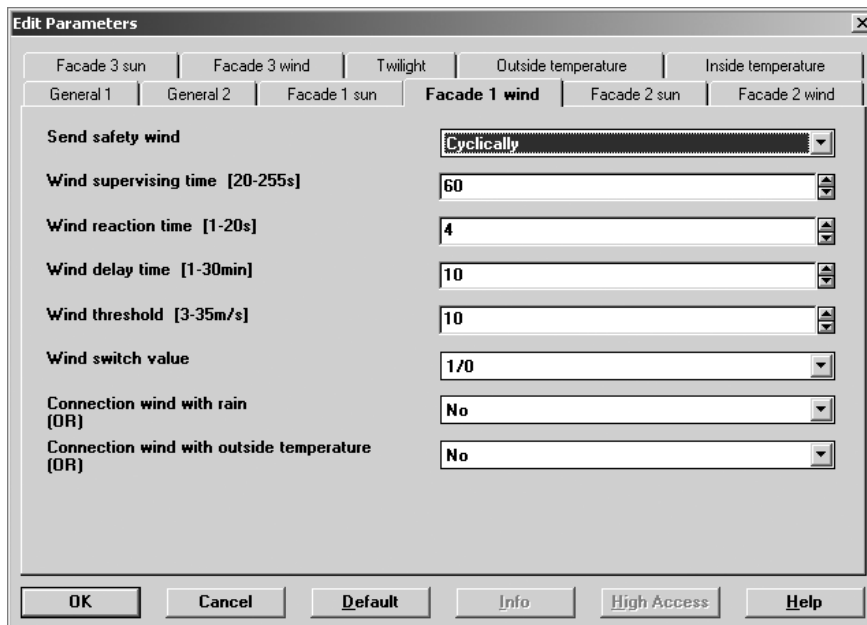
Transmit Wind Safety: **cyclical / static**
"cyclical": Monitoring time setting (settings between 20 and 255 sec., default value = 60s). The switch value is fixed (1/0). "static": Settings of the switch value, selected from 1/0, 1/–, 0/1, 0/–, –/1, –/0 (see 1.1.9).

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

Wind Delay Time: **[0 – 30 min.]**
Delay time setting (default value = 10 min.) (see 1.1.10)

Wind Set Value: **[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).

Link Wind with Rain and Wind with Outside Temperature: **yes / no**
The link may be set as desired.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.
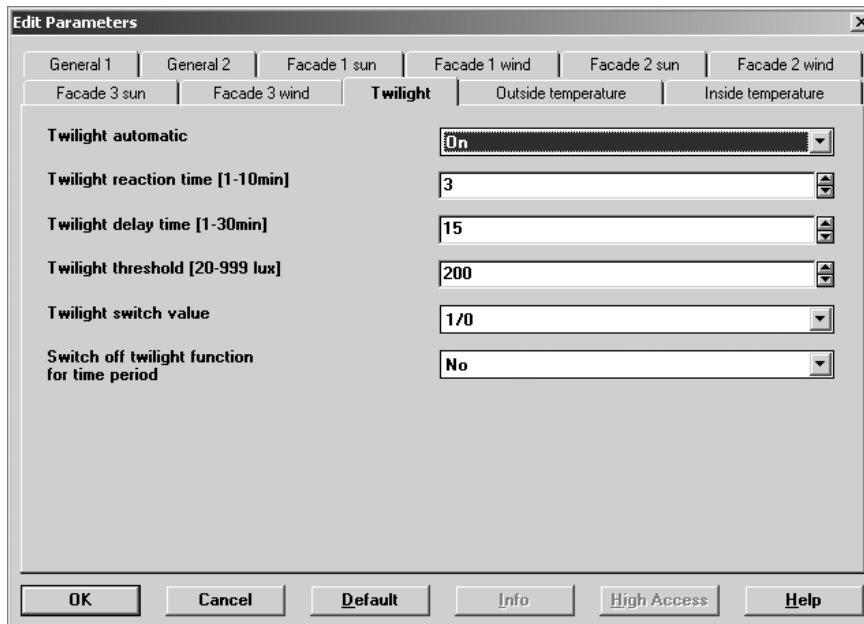
3.2.5 "Half–Light" Register (see 1.1.2)

```
Edit Parameters                                                          [X]
┌────────────────────────────────────────────────────────────────────────┐
│  General 1  │  General 2  │  Facade 1 sun  │  Facade 1 wind  │  Facade 2 sun  │  Facade 2 wind  │
│  Facade 3 sun  │  Facade 3 wind  │  Twilight  │  Outside temperature  │  Inside temperature  │
│                                                                          │
│   Twilight automatic                    [On                          ▼]  │
│                                                                          │
│   Twilight reaction time [1-10min]      [3                          ▲▼]  │
│                                                                          │
│   Twilight delay time [1-30min]         [15                         ▲▼]  │
│                                                                          │
│   Twilight threshold [20-999 lux]       [200                        ▲▼]  │
│                                                                          │
│   Twilight switch value                 [1/0                         ▼]  │
│                                                                          │
│   Switch off twilight function          [No                          ▼]  │
│   for time period                                                        │
│                                                                          │
│                                                                          │
│   [ OK ]   [ Cancel ]   [ Default ]   [ Info ]   [ High Access ]  [ Help ]│
└────────────────────────────────────────────────────────────────────────┘
```

**Half–Light
Automated System:**   on / off
"yes": Objects 14 and 16 disappear from the display.

**Half Light Response
Time:**   [1 – 10 min.]
Response time setting
(default value = 3 min.)
(see 1.1.10)

Half–Light Delay Time: [1 – 30 min.]
Delay time setting (default value = 15 min.)
(see 1.1.10)

Half–Light Set Value: [20 – 999 Lux]
Set value setting
(default value = 200 Lux)

Half–Light Switch Value: 1/0, 1/–, 0/1, 0/–, –/1, –/0
Switch value setting (see 1.1.8).

**Switch Off Half–Light
Function for Time Period:**   yes / no
"yes": Time period setting, whereby the half–light system
is switched off. Make sure that the correct time is entered:
hour.minute – hour.minute. In the event of incorrect
entries, the *EIB* Kombisensor 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)

Edit Parameters

General 1 | General 2 | Facade 1 sun | Facade 1 wind | Facade 2 sun | Facade 2 wind
Facade 3 sun | Facade 3 wind | Twilight | **Outside temperature** | Inside temperature

Send safety outside temperature	Cyclically
Supervising time[20-255 s]	60
Outside temperature hysteresis [°C]	1
Outside temperature lower [-25 bis +70°C]	0
Outside temperature switch command	1/0
Connection outside temperature with rain (AND)	No

OK | Cancel | Default | Info | High Access | Help

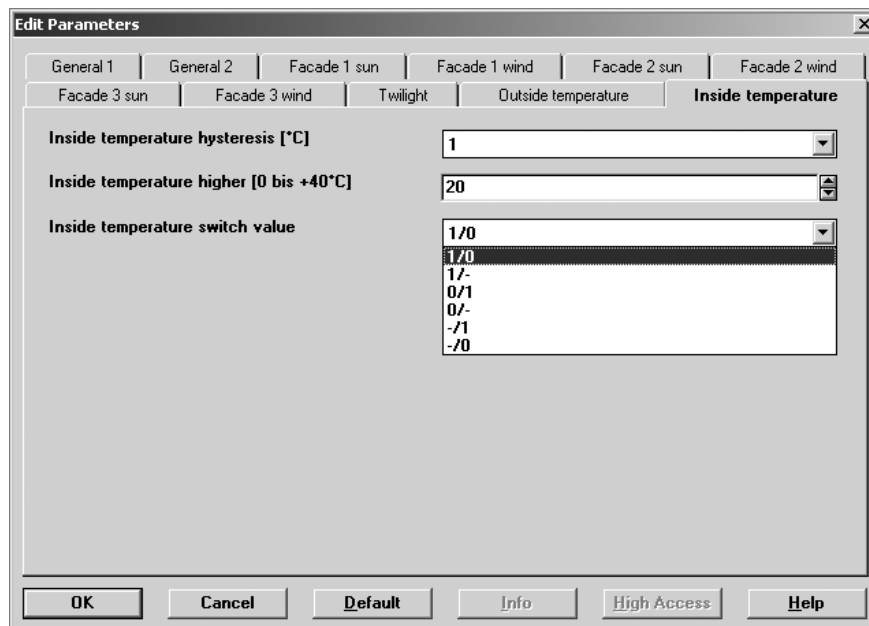|	
Transmit Outside Temperature Safety:	**cyclical / static** "cyclical": Monitoring time setting (settings between 20 and 255 sec.). The switch value is fixed (1/0). "static": Settings of the switch value, selected from 1/0, 1/–, 0/1, 0/–, –/1, –/0 (see 1.1.9)
Outside Temperature Hysteresis [° C]:	Hysteresis setting between 1° C and 5° C (default value = 1° C).
Outside Temperature Less Than [–25 – 70° C]:	Set value setting (default value = 0 ° C).
Outside Temperature Switch Value:	**1/0, 1/–, 0/1, 0/–, –/1, –/0** Setting of the switch value only in the case of "Static Transmission Outside–Temperature Safety" (see 1.1.8).
Link Outside Temperature with Rain:	**yes / no** The link may be set as desired.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

20   SOMFY.   *EIB–Kombisensor AS 315 N*

3.2.7 "Interior Temperature" Register (see 1.1.5)

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

**Interior Temperature
Greater Than [0 – 40° C]:** Set value setting (default value =20 ° C).

**Interior 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 of Temperature Sensor:	**Outside Sensor / Interior Sensor**
	"Interior Temperature" is only to be selected, if the interior Temperature sensor has been connected.

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

Until Outside Temperature Less Than [-25 – +70° C] or Interior Temperature Less Than [0 – 40° C]:	Set value setting (default value = 5° C or 15° C, as the case may be).

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

Function for the Ventilation Time Period:	**[hh:mm – hh:mm]**
	Time period setting, whereby 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 Kombisensor 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.

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

22 **SOMFY**® *EIB–Kombisensor AS 315 N*

3.2.9 "Clock Channel 1" or "Clock Channel 2" Register (see 1.1.7)

Edit Parameters

| General 1 | General 2 | Facade 1 sun | Facade 1 wind | Facade 2 sun | Facade 2 wind |

| Outside temperature | Inside temperature | Forced ventilation |

| Facade 3 sun | Facade 3 wind | Twilight | **Clock channel 1** | Clock channel 2 |

- Active day 1   `1-5 :Mo-Fri`
- Active time 1 (hh:mm-hh:mm)   `00:00-00:00`
- Switch value 1   `1/0`
- Active day 2   `6-7 :Sa-Sun`
- Active Time 2 (hh:mm-hh:mm)   `00:00-00:00`
- Switch value 2   `1/0`

| OK | Cancel | Default | Info | High Access | Help |

Active Day 1: 1 – 5: Mo – Fr, 1 – 7: Mo – So, 5 –6: Sa – So
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 Kombisensor 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 – So
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 event of incorrect entries, the *EIB* Kombisensor 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*

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:

signal transmission with
the weather station.   radio symbol   rain symbol
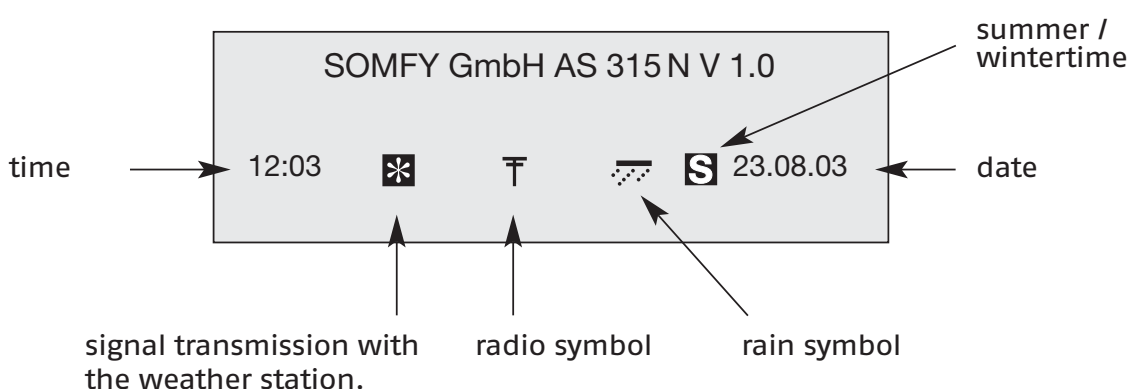
Blinking Star Symbol:	There is signal transmission
Permanent Star Symbol:	No signal transmission
Display of Radio Symbol:	There is DCF reception. The time and date are then set automatically.
Radio Symbol Not Displayed:	There is no DCF reception. The time and date must be set manually.

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

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.

24   **SOMFY®**   *EIB-Kombisensor AS 315 N*

The "menu" key retrieves the following pages:

"Wind" Page:

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

Wind-velocity
← -wind-velocity set value
← -current wind-velocity
← -wind-velocity switch values

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

↓ "menu" key

"Light Intensity" Page:

Sun:	S1	S2	S3	D
Set Value:	30	40	30	300
Current Value:	15	45	20	900
[kLux]:	1	1	0	0

Light-intensity
← -light-intensity set value
← -current light intensity
← -light-intensity switch values

S1, S2, S3: Sun for Facades 1, 2 and; D: Half-light

↓ "menu" key

"Outside Temperature" Page:

Temp.:	Outside
Set Value:	0
Current Value:	10
[°C]:	0

Outside temperature
← -outside temperature set value
← -current outside temperature
← -outside temperaute switch values

↓ "menu" key

"Inside Temperature" and "Ventilation" Page:

Inside temperature
-interior temperature set value →
-current interior temperature →
-interior temperature switch values →

Temp.:	Interior	Ventilation
Set Value:	0	5
Current Value:	10	07:00 – 07:30
[°C]:	0	0

Ventilation
← -ventilation set value
← -ventilation time period
← -ventilation switch values

↓ "menu" key

"Clock Channel 1" Page:

```
Channel 1:    1–5          6–7                       Channel 1
              11:00 –      13:00 –        ◄────────  –Channel 1 switch days
              12:00 –      14:00 –        ◄────────  –Channel 1 switch lines
12:03            0            0           ◄────────  –Channel 1 switch values
     └──────►  Current Time
```

↓ "menu" key

"Clock Channel 2" Page:

```
Channel 2:    1–5          6–7                       Channel 2
              18:00 –      19:00 –        ◄────────  –Channel 2 switch days
              19:00 –      20:00 –        ◄────────  –Channel 2 switch lines
12:03            0            0           ◄────────  –Channel 2 switch values
     └──────►  Current Time
```

↓ "menu" key

"Automated System" Page:

```
Automated: SA1      SA2      SA3      DA
           ON       ON       ON       ON        ◄────────  Status
```

SA1, SA2, SA3: Automated sun system for Facades 1, 2 and 3, DA: Automatic half–light system

↓ "menu" key

"Language" Page:

```
Language:    Deutsch
             English
             Français
             Italiano
```

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 may be altered. If the "menu" key is pressed, then the edit mode is exited and the next page appears.

The following values may be 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 press after the value has been altered, the change is not saved.
· Sun set value for Facades 1 through 3
· Half-light set value
· Wind set value for Facades 1 through 3
  (provided that you have allowed this within the ETS parametering)
· Outside temperature set value
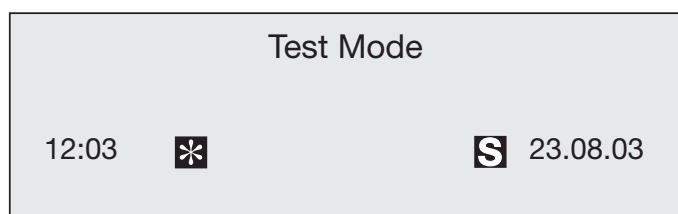· Outside temperature current value
Note:
It is possible that the current value, measured on the weather station, sets itself incorrectly. In order to correct to current value, press the "menu" the number of times necessary, until the "Outside Temperature" page is reached. Press the "set" key, and then 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.
· Interior temperature set value
· Temperature set value for the forced ventilation
· Automated sun system for Facades 1 through 3, switch on/off
· Automated half-light 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:

```
+------------------------------------------+
|              Test Mode                   |
|                                          |
|                                          |
|   12:03     *            S   23.08.03    |
|                                          |
+------------------------------------------+
```

5. _Technical Data_

The _EIB_ Kombisensor 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 Casing Protection:	IP 20
Protection Class:	II
Environmental Conditions:	Normal
Temperature Range:	–5° C through 45° C
Dimensions (H x W x D):	90 x 59 x 140 mm (8 TE)
Meets EMC Requirements:	_EIB_ guidelines according to the KNX Handbook, edition 1.0
Conformity to CE Standards:	European Standard 50090–2–2 Interference Signal Emission European Standard 50090–2–2 Interference Immunity

Interior Temperature Sensor

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

The right to implement changes is reserved, as this serves the purpose of technical progress: All measurements are is mm.