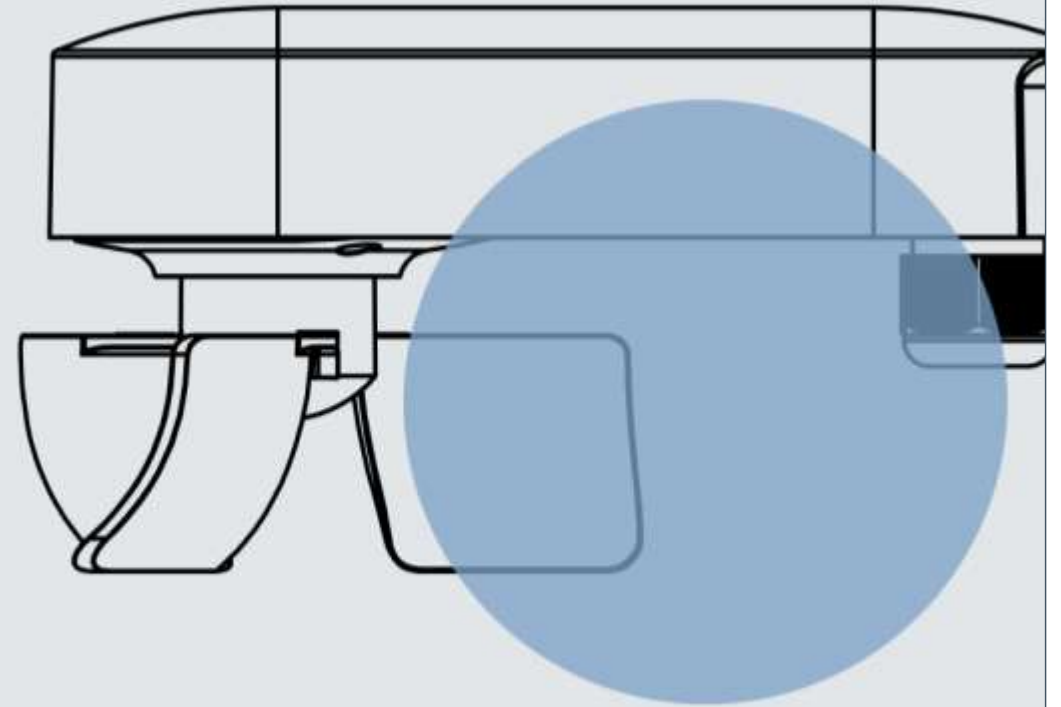
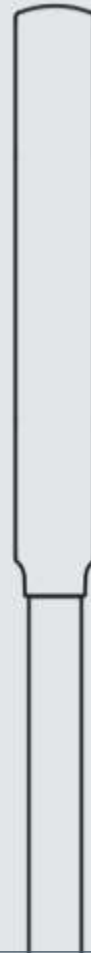
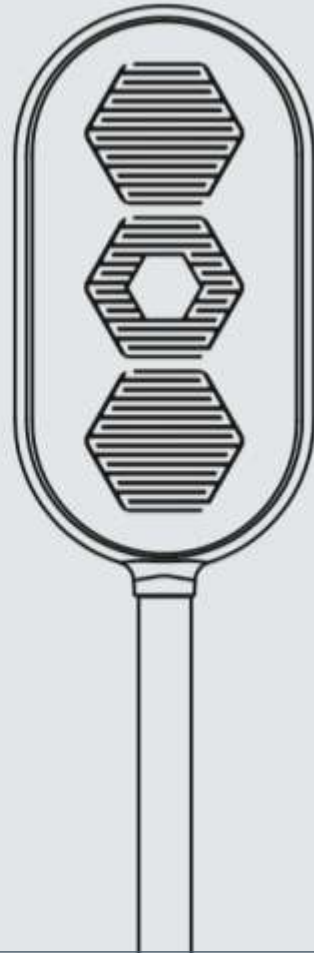
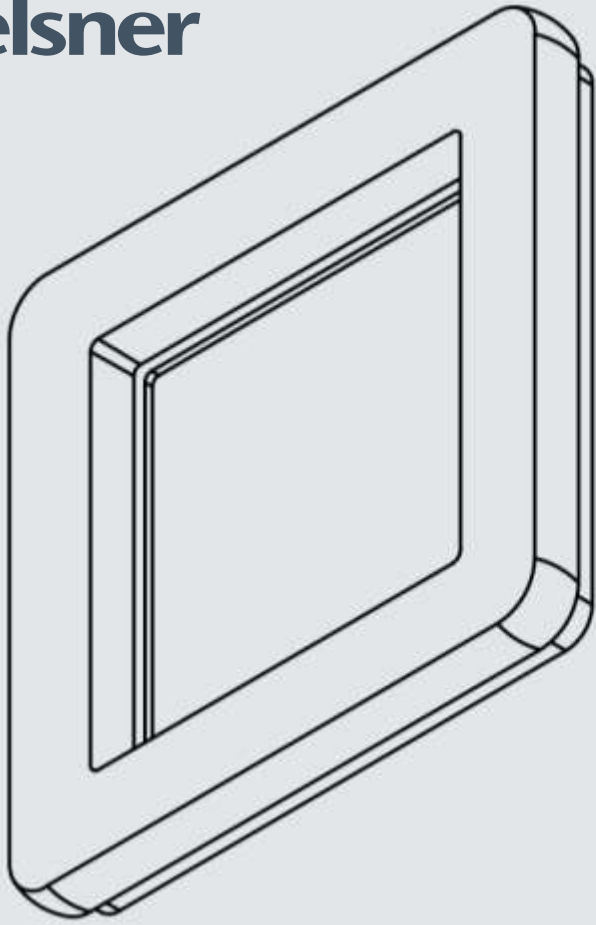


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Light + Building 2026 Innovations

Applications, Functions, Integration

Henry Kohl & Bastian Elsner | 01.04.2026



Henry Kohl

- Sales Manager
- Customer & Project Consultant
- KNX Partner & Enthusiast

» We are
your
speakers
today



Bastian Elsner

- Managing Partner at
Elsner Elektronik GmbH
- Responsibility: marketing, sales,
development, production,
purchasing, logistics, service



» Light & Building

in Pictures



Learning goals

| After this webinar, you will be able to

- ✓ Incorporating Elsner's new products into your project
- ✓ Use the default settings
- ✓ Understanding the basics of KNX Secure



AGENDA

1. Hotel Solutions
2. Weather sensors
3. KNX Push-Button Series & Project Applications
4. Examples of KNX Secure Parameters
5. Outlook for 2026



Smart Building Technology

01 | Hotel Solutions



Cala 101 T KNX sec

| Room Temperature Controller

- Heating controller/thermostat with setpoint adjuster
- Glass surface with temperature display and +/- touch buttons
- Can be configured as a master controller or a slave unit
- Use KNX Data Secure for encrypted data transmission



KNX eTR 102 FC

| Control unit for fan coil applications

- Room thermostat
- FC = Fan Coil
- Individual control of heating and cooling capacity in fan coil units
- 3-speed fan speed control



KNX eTR DND/MUR

| Switches and displays for hotel rooms

- DND - Do not Disturb
- MUR - Make up Room
- Doorbell function and status indicator in the hallway
- Checking the status via KNX
- Integrated temperature sensor
- 2 binary inputs
- Logic functions



Introduction

| KNX eTR DND/MUR



Video clip: "DND/MUR switches and displays for hotels from the KNX eTR series"

Watch on YouTube ▶

02 | Weather Sensors

The background of the slide is a faded, light-colored photograph of a weather station. It shows a tall metal pole with several sensors attached. At the top, there is a white, dome-shaped sensor, likely a rain gauge or a specific type of precipitation sensor. Below it, there are other sensors, including what appears to be a wind speed and direction sensor (anemometer) and a temperature/humidity sensor. The background is intentionally blurred and desaturated to make the text stand out.

BX8 KNX

| Expansion for more façades

- Expansion with 8 façades for large buildings
- Shading, including slat and shadow edge tracking
- Protection against rain, wind, and frost
- Timers
- Uses a KNX weather station as a sensor
- Additional KNX wind sensors can be integrated for each façade



Rainswitch 1000 R GI

| Rain sensor

- The Rainswitch 1000 R GI detects precipitation and sends a rain alarm signal via a dry contact output
- Compact dimensions: 90 × 46 × 12 mm
- Comes with a 1-meter power cord
- Sheet metal bracket for easy installation and angle adjustment
- Includes a 3M adhesive pad for easy, secure installation on metal brackets or building surfaces



Suntracer pro BACnet

| Weather station BACnet

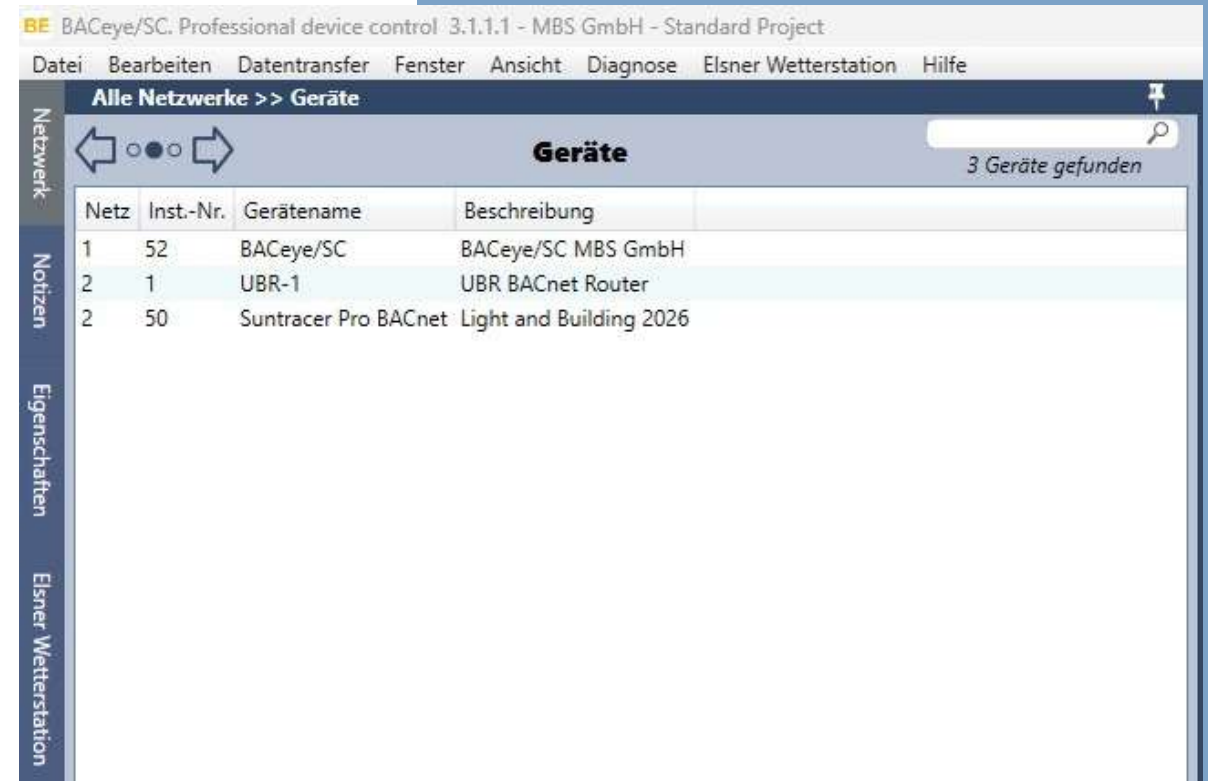
- First BACnet weather station on the market
- Suntracer Pro model with ultrasonic wind measurement
- Created in collaboration with the MBS GmbH
- BACnet weather station with sensors for :
 - Brightness including shading control based on the sun's position and louver tracking
 - Wind speed and wind direction
 - Precipitation
 - Temperature, humidity, air pressure
 - Timer functions
 - Weather-related logic (wind, rain, shading) does not necessarily have to be managed and processed through a building management system



BacEye

| Available devices

- If the building management system fails, the weather-dependent functions will still work if communication is established directly via BACnet
- The weather station can already display images of 12 façades without requiring the use of a building management system
- Fewer gateways = fewer points of failure & lower latency
- Cost savings through fewer gateways
- Commissioning can be performed by an MSR/HVAC technician if necessary



The screenshot shows the BacEye/SC software interface. The title bar reads "BACeye/SC. Professional device control 3.1.1.1 - MBS GmbH - Standard Project". The menu bar includes "Datei", "Bearbeiten", "Datentransfer", "Fenster", "Ansicht", "Diagnose", "Elsner Wetterstation", and "Hilfe". The main window title is "Alle Netzwerke >> Geräte". Below the title bar, there are navigation icons and a search bar. The search bar contains the text "3 Geräte gefunden". The main content area displays a table with the following data:

Netz	Inst.-Nr.	Gerätename	Beschreibung
1	52	BACeye/SC	BACeye/SC MBS GmbH
2	1	UBR-1	UBR BACnet Router
2	50	Suntracer Pro BACnet	Light and Building 2026

The left sidebar contains the following menu items: "Netzwerk", "Notizen", "Eigenschaften", and "Elsner Wetterstation".

BacEye

| data points

- Very specific data points/values and their processing (azimuth/elevation...) already take place within the weather station

The screenshot shows the BacEye software interface for a BACnet-Server. The main window displays a list of objects with the following columns: Akti (checked/unchecked), Parameter, Obj. Typ, Inst.-Nr, and Objekt Name. The objects listed include various parameters and their corresponding object types and instance numbers.

Akti	Parameter	Obj. Typ	Inst.-Nr	Objekt Name
<input checked="" type="checkbox"/>		DEV	50	Name BACnet Suntracer Prc
<input checked="" type="checkbox"/>		FIL	10	File Objekt Firmware
<input checked="" type="checkbox"/>		MV	10	Firmware Control
<input checked="" type="checkbox"/>		MV	11	Firmware Response
<input checked="" type="checkbox"/>		NP	1	Objekt Name NP1
<input type="checkbox"/>		NC	1	Objekt Name NC1
<input type="checkbox"/>		NC	2	Objekt Name NC2
<input type="checkbox"/>		NC	3	Objekt Name NC3
<input type="checkbox"/>		NC	4	Objekt Name NC4
<input type="checkbox"/>		NC	5	Objekt Name NC5
<input type="checkbox"/>		NC	6	Objekt Name NC6
<input type="checkbox"/>		NC	7	Objekt Name NC7
<input type="checkbox"/>		NC	8	Objekt Name NC8
<input type="checkbox"/>		NC	9	Objekt Name NC9
<input type="checkbox"/>		NC	10	Objekt Name NC10
<input checked="" type="checkbox"/>		FIL	20	File Objekt Konfiguration
<input checked="" type="checkbox"/>		MV	20	Configuration Control
<input checked="" type="checkbox"/>		MV	21	Configuration Response
<input checked="" type="checkbox"/>		FIL	30	File Objekt Persistenzdaten
<input checked="" type="checkbox"/>		MV	30	Persistenzdaten Control
<input checked="" type="checkbox"/>		MV	31	Persistenzdaten Response
<input checked="" type="checkbox"/>	Außentemperatur Wettersta	AI	1	Temperatur
<input checked="" type="checkbox"/>	Windgeschwindigkeit Wette	AI	2	Windgeschwindigkeit
<input checked="" type="checkbox"/>	Windrichtung Wetterstation	AI	3	Windrichtung
<input checked="" type="checkbox"/>	Luftfeuchtigkeit Wetterstati	AI	4	Relative Luftfeuchtigkeit
<input checked="" type="checkbox"/>	Helligkeit Wetterstation	AI	5	Lightintensität
<input checked="" type="checkbox"/>	Luftdruck Wetterstation	AI	6	Luftdruck
<input checked="" type="checkbox"/>	Zentraler Regenalarm	BI	1	Regenwarnung
<input checked="" type="checkbox"/>	Sonnenhöhe	AV	1	Sonnenposition Höhe
<input checked="" type="checkbox"/>	Sonnenrichtung	AV	2	Sonnenposition Richtung
<input checked="" type="checkbox"/>		IV	1	Erste Positionskoordinate
<input checked="" type="checkbox"/>		IV	2	Zweite Positionskoordinate
<input checked="" type="checkbox"/>		IV	3	Dritte Positionskoordinate
<input checked="" type="checkbox"/>		IV	4	Vierte Positionskoordinate
<input checked="" type="checkbox"/>		BV	100	Regenwarnung für Fassade
<input checked="" type="checkbox"/>		BV	101	Windwarnung für Fassade #
<input checked="" type="checkbox"/>		AV	100	Aktuelle Position für Fassad
<input checked="" type="checkbox"/>		AV	101	Aktuelle Lamellen Position f
<input checked="" type="checkbox"/>		SV	100	Alle Objekte für Fassade #1
<input checked="" type="checkbox"/>		SV	101	Alle externen Objekte für Fa
<input checked="" type="checkbox"/>		BV	200	Regenwarnung für Fassade
<input checked="" type="checkbox"/>		BV	201	Windwarnung für Fassade #
<input checked="" type="checkbox"/>		AV	200	Aktuelle Position für Fassad
<input checked="" type="checkbox"/>		AV	201	Aktuelle Lamellen Position f

BacEye

| Data transmission



BacEye

| Façade settings

BACeye/SC. Professional device control 3.1.1.1 - MBS GmbH - Standard Project

Datei Bearbeiten Datentransfer Fenster Ansicht Diagnose Elsner Wetterstation Hilfe

Elsner Wetterstation

Netzwerk **BACnet-Client**

Notizen

Eigenschaften

Elsner Wetterstation

Fassaden

Name
Fassade Ost
Fassade Süd
Fassade West
Fassade 4
Fassade 5
Fassade 6
Fassade 7
Fassade 8
Fassade 9
Fassade 10
Fassade 11
Fassade 12

Fassade

Name: Fassade Ost

Windalarm

Device ID	Obj. Typ	Obj. Inst.	Property	Array Index	Priorität
50	Binary Value	101	EventDetectionEn	-	-

Regenalarm

Device ID	Obj. Typ	Obj. Inst.	Property	Array Index	Priorität
50	Binary Input	1	EventDetectionEn	-	-

Position

Device ID	Obj. Typ	Obj. Inst.	Property	Array Index	Priorität
50	Analog Value	100	PresentValue	-	-

Lamellenwinkel

Device ID	Obj. Typ	Obj. Inst.	Property	Array Index	Priorität
50	Analog Value	101	PresentValue	-	-

BacEye

| Plug-In

BE BACeye/SC. Professional device control 3.1.1.1 - MBS GmbH - Standard Project

Datei Bearbeiten Datentransfer Fenster Ansicht Diagnose Elsner Wetterstation Hilfe

Elsner Wetterstation

Netzwerk

← ● ○ ○ ○ ○ → **Identifikation Wetterstation**

Geräteauswahl

	Device-ID	Name	Beschreibung	MAC-Adress	Modellname	Firmware-Re
<input checked="" type="checkbox"/>	50	Suntracer Pro BAC Light and Building 2026		32 => 50	30310 Suntracer B	Base: 0.1.1; B

Notizen

Eigenschaften

E

BacEye

| Façade Plug-In

BE BacEye/SC. Professional device control 3.1.1.1 - MBS GmbH - Standard Project

Datei Bearbeiten Datentransfer Fenster Ansicht Diagnose Elsner Wetterstation Hilfe

Elsner Wetterstation

Netzwerk

← ● ○ ○ ○ → **Basis Konfiguration**

Fassaden verwenden ...

	Ja	Fassade
1	<input checked="" type="checkbox"/>	Fassade Ost
2	<input checked="" type="checkbox"/>	Fassade Süd
3	<input checked="" type="checkbox"/>	Fassade West
4	<input checked="" type="checkbox"/>	Fassade 4
5	<input checked="" type="checkbox"/>	Fassade 5
6	<input checked="" type="checkbox"/>	Fassade 6
7	<input checked="" type="checkbox"/>	Fassade 7
8	<input checked="" type="checkbox"/>	Fassade 8
9	<input checked="" type="checkbox"/>	Fassade 9
10	<input checked="" type="checkbox"/>	Fassade 10
11	<input checked="" type="checkbox"/>	Fassade 11
12	<input checked="" type="checkbox"/>	Fassade 12

Notizen

Eigenschaften

Elsner Wetterstation

03 | KNX Secure, Parameter Examples

eTR 103 AC KNX sec



Study

KNX eTR 101



KNX eTR 102 FC

KNX eTR DND/MUR
Signal/Bell



KNX eTR DND/MUR
Switch

eTR Cover Frame
60 mm Inserts

Windancer (GPS) KNX sec

| Weather station

- The popular weather station now features KNX-Data-Secure for encrypted data transmission
- KNX weather stations with sensors for :
 - Brightness including shading control
 - Wind
 - Precipitation
 - Temperature
 - Logic gate
 - timer
 - Optional GPS time synchronization for precise shading based on the sun's position



KNX Application

| New Application Overview


Startseite

+  Allgemeine Einstellungen

+  Wind


+  Temperatur

+  Regen

+  Lichtverhältnisse

+  Beschattung

+  Logik

+  Zeitschalter

elsner

Entdecken Sie das vielseitige Portfolio von Elsner Elektronik:
Wir bieten Ihnen eine breite Auswahl an KNX-Komponenten für anspruchsvolle Gebäudeautomation.

Eine Übersicht unserer weiteren Lösungen und technischen Innovationen finden Sie unter dem folgenden QR-Code:



www.elsner-elektronik.de/de/knx-bussystem.html



Nutzen Sie unsere ETS Service App für ein effizientes Gerätemanagement.
Das Tool ermöglicht Ihnen die komfortable Durchführung von Firmware-Updates direkt innerhalb der ETS-Umgebung. So halten Sie Ihre Installationen mühelos auf dem neuesten Stand.
Die ETS Service-App finden sie unter folgender URL:

info.elsner-elektronik.de/hubfs/Service/Elsner_Service-App_Updateanleitung.pdf



Nutzen Sie für eine effiziente Parametrierung die integrierte Kontexthilfe direkt in der ETS. Detaillierte Erläuterungen zu spezifischen Parametern und Kommunikationsobjekten lassen sich per Mausklick einblenden.

Dies unterstützt Sie unmittelbar bei der Konfiguration der Parameter und Funktionen und sorgt für eine intuitive, zeitsparende Projektabwicklung direkt innerhalb der Software-Oberfläche.



Kontaktieren sie unseren technischen Support bei Fragen rund um das Thema KNX und Applikationen.

Tel.: +49 (0) 70 33 / 30 945-0
E-Mail: info@elsner-elektronik.de
www.elsner-elektronik.de/de/service-form



KNX Application

| Context Help

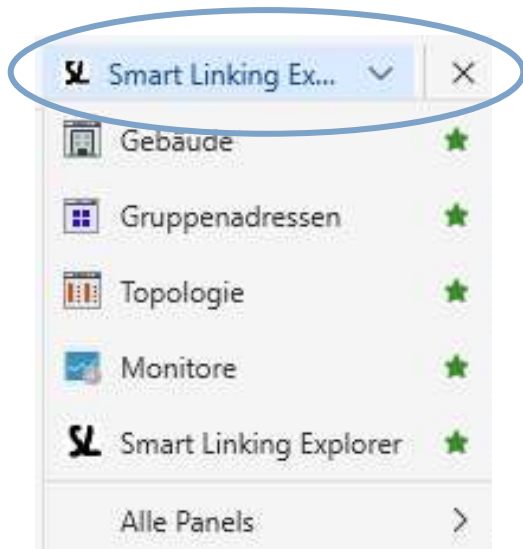
.1 Windancer KNX-GPS > Wind > Grenzwert 1

Startseite	Grenzwert: (Obj. 49-54)
Allgemeine Einstellungen	Grenzwertvorgabe per <input checked="" type="radio"/> Parameter <input type="radio"/> Kommunikationsobjekte
Wind	Grenzwert in 0,1m/s <input type="text" value="80"/>
Grenzwert 1	Schaltabstand (Hysterese) des Grenzwertes in % <input type="text" value="20"/>
Grenzwert 2	Schaltausgang:
Temperatur	Ausgang ist bei (GW = Grenzwert) (Schaltab. = Schaltabstand) <input type="text" value="GW über = 1 GW - Schaltab. unter = 0"/>
Grenzwert 1	Verzögerungen über Objekte einstellbar (in Sekunden) <input checked="" type="radio"/> Nein <input type="radio"/> Ja
Regen	Schaltverzögerung von 0 auf 1 <input type="text" value="keine"/>
Regen	Schaltverzögerung von 1 auf 0 <input type="text" value="keine"/>
Lichtverhältnisse	Schaltausgang sendet <input type="text" value="bei Änderung"/>
Beschattung	Sperrung:
Logik	Sperrung des Schaltausgangs verwenden <input checked="" type="radio"/> Nein <input type="radio"/> Ja
Zeitschalter	

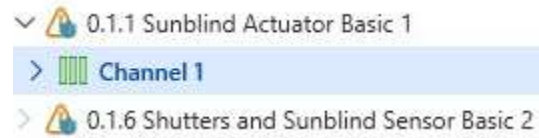
Bei beiden Arten der Grenzwertvorgabe wird der Schaltabstand (Hysterese) eingestellt, die für den nächsten Parameter wichtig ist. Der Schaltabstand verhindert, dass sich bei Temperaturschwankungen der Grenzwerts zu oft ändert. Bei sinkender Temperatur reagiert der Schaltausgang erst, wenn der Grenzwert um den Schaltabstand unterschritten wird (Punkt 1 und 2 bei nächstem Parameter). Bei steigender Temperatur reagiert der Schaltausgang erst, wenn der Grenzwert um den Schaltabstand überschritten wird (Punkt 3 und 4 bei nächstem Parameter).

Smart Linking

| Step-by-step instructions



Step 01



Smart Linking

| Step-by-step instructions

Step 02

Smart Linking Ex... | Unlink All Channels | Clear View | View F

Sunblind Actuator Basic 1

Channel 1

- 31/0/0 MoveUpDown - MoveUpDown
- 31/0/1 StopStepUpDown - StopStepUpDown
- 31/0/2 DedicatedStop - DedicatedStop
- PresetPosition - PresetPosition
- 31/0/4 SetAbsPosBlindsPercentage - SetAbsPosBlindsPercentage
- 31/0/3 SetAbsPositionBlindsLength - SetAbsPositionBlindsLength
- 31/0/6 SetAbsPosSlatsPercentage - SetAbsPosSlatsPercentage
- 31/0/5 SetAbsPosSlatsDegrees - SetAbsPosSlatsDegrees

Gruppenadressen

- Suchordner
 - 14 Adressen mit Kommentar versehen
 - 0 Adressen nicht zugewiesen
- Gruppenadressen
 - 31 31
 - 31/0 Neue Mittelgruppe
 - 31/0/0 Move Up Down
 - 31/0/1 Stop Step Up Down
 - 31/0/2 Stop Trigger

Sic Adresse	Name	Beschreibung
31/0/0	Move Up Down	
31/0/1	Stop Step Up Down	
31/0/2	Stop Trigger	
31/0/3	Position Length	
31/0/4	Position Percentage	
31/0/5	Slat Position Degrees	
31/0/6	Slat Position Percentage	
31/0/7	Status Move Up Down	
31/0/8	Forced Move Up Down	priority control active or inactive and priority value.
31/0/9	Scene Control (Blinds)	

Smart Linking

Overview

The screenshot displays the ETS Professional software interface for configuring a KNX system. The main window shows a project titled '0.1.6 Shutters and Sunblind Sensor Basic 2' with 'Channel 1' selected. The left sidebar contains a tree view of devices, including 'Channel 1', '0.1.6 Shutters and Sunblind Sensor Basic 2', and various sensors like 'Wind', 'Temperatur', and 'Ragen'. The central area shows 'Keine Parameter verfügbar' (No parameters available). The bottom section is divided into two panes: 'Shutters and Sunblind Sensor Basic 2' and 'Gruppenadressen' (Group Addresses).

Schritt 01 points to the 'Channel 1' device in the tree view.

Schritt 02 points to the 'Gruppenadressen' table, which lists the following data:

Gruppenadresse	Name	Beschreibung	Zentrale	Datentyp	Länge	Anzahl Letzter Wert
31/0/0	Move Up/Down		Nein	Auf/Ab	1 bit	1
31/0/1	Stop Step Up/Down		Nein	Schritt	1 bit	1
31/0/2	Stop Trigger		Nein	Auslöser	1 bit	1
31/0/3	Position Length		Nein	Länge (m...)	2 bytes	1
31/0/4	Position Percentage		Nein	Prozent [...]	1 byte	2
31/0/5	Slat Position Degrees		Nein	Rotations...	2 bytes	1
31/0/6	Slat Position Percentage		Nein	Prozent [...]	1 byte	2
31/0/7	Status Move Up/Down		Nein	Auf/Ab	1 bit	2
31/0/8	Forced Move Up/Down	priority control active or inactive and priority value	Nein	Richtung...	2 bit	1
31/0/9	Scene Control (Blinds)		Nein	Szenenst...	1 byte	1
31/0/10	Scene Number (Blinds)		Nein	Szenen N...	1 byte	1

Windancer basic W GI & KNX sec >>

| Wind sensor

- The Windancer basic W GI measures wind speed and triggers a wind alarm via a potential-free output
- Threshold setting via DIP switches
- The Windancer basic W KNX sec measures and processes wind speed
- KNX-Data-Secure for encrypted data transmission



04 | KNX Push-Button Series & Project Applications

eTR 103 AC KNX sec



KNX eTR 101



KNX eTR DND/MUR
Signal/Bell



eTR Cover Frame
60x65 mm Inserts

KNX eTR 102 FC



KNX eTR DND/MUR
Switch



KNX eTR 103 AC secure

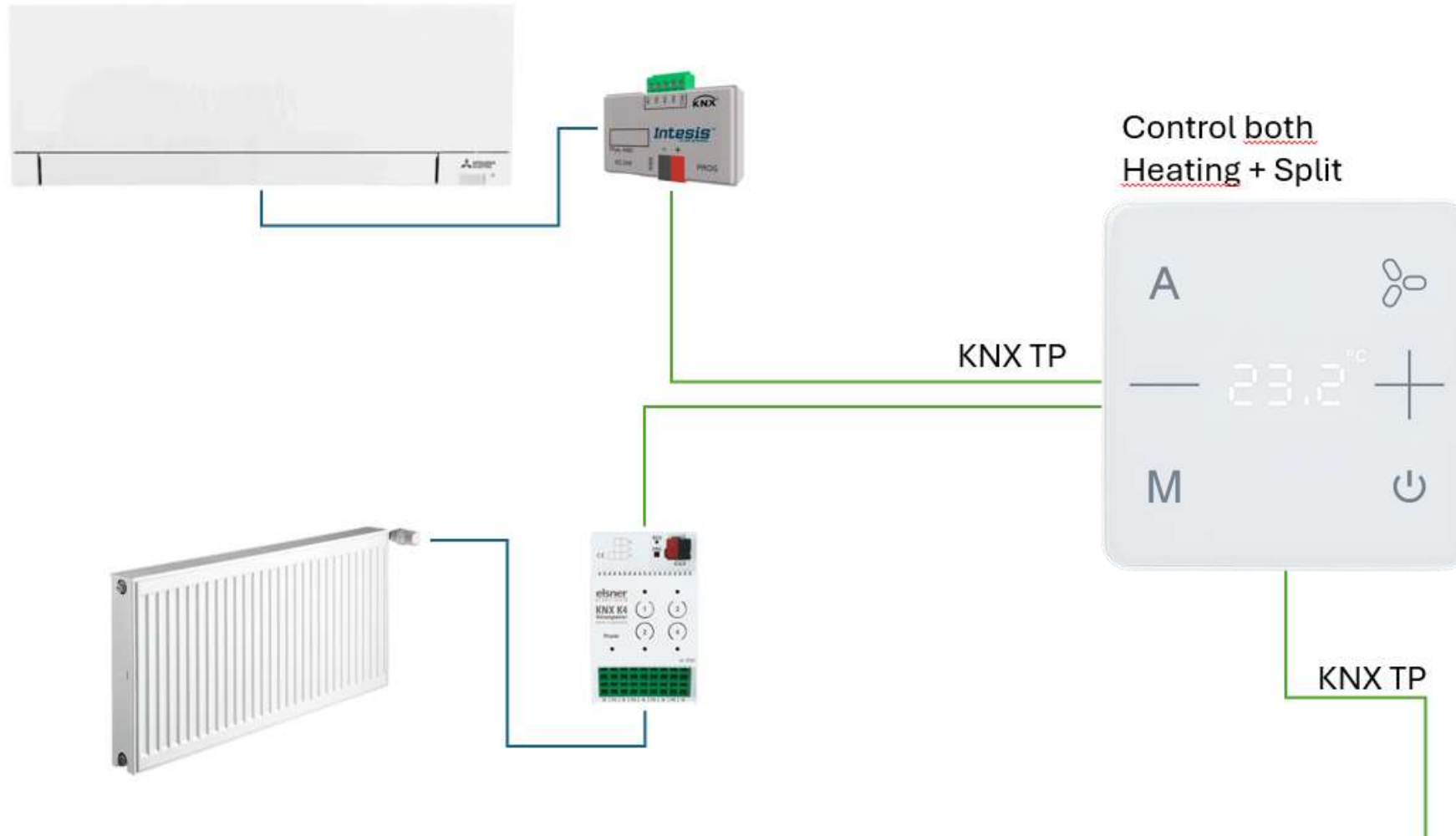
| Overview

- Room thermostat
- AC = Air Condition
- Individual climate control
- 3-speed fan speed control
- Compatible with KNX, AC, and VRV gateways from leading manufacturers
- KNX-Data-Secure for encrypted data transmission



Gateway Application Example

| Heating / Cooling with eTR 103 AC sec



Project assignment

| Examples of Use

- Hotel room
- Open-plan office
- Public buildings



And how much is all this going to cost?

| New eTR Pricing Structure



eTR 103 AC sec

➤ Available starting in March 2026



eTR 101 alt -> eTR 101 BA2 sec

➤ Available in 2026

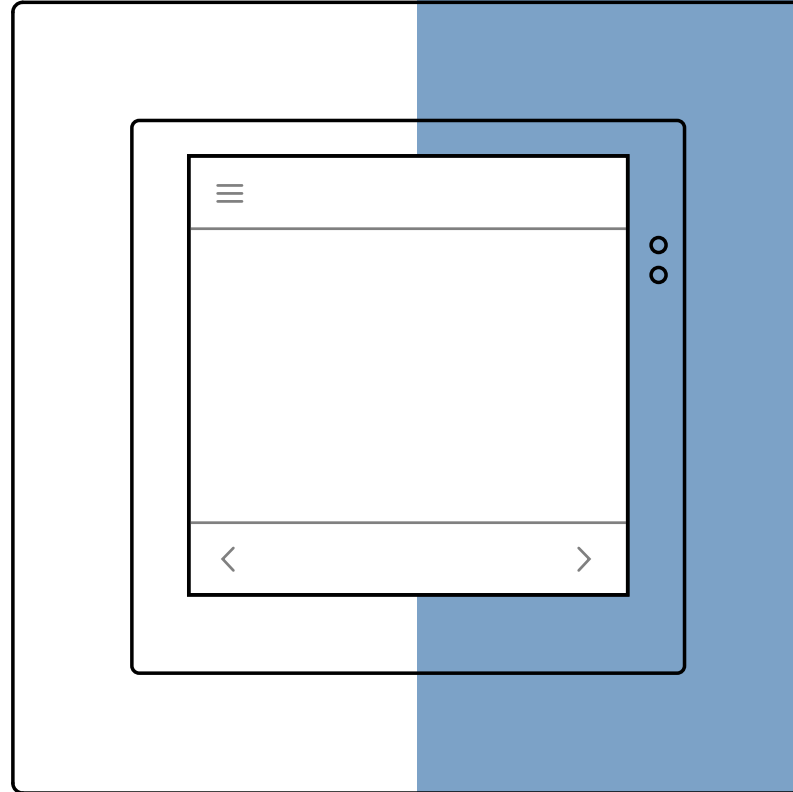
The eTR series will be completely transitioned Q4/26–Q1/27.
Includes: KNX TP-Secure, BA2 Features

05 | Outlook 2026

Cala Touch 2.5in KNX sec

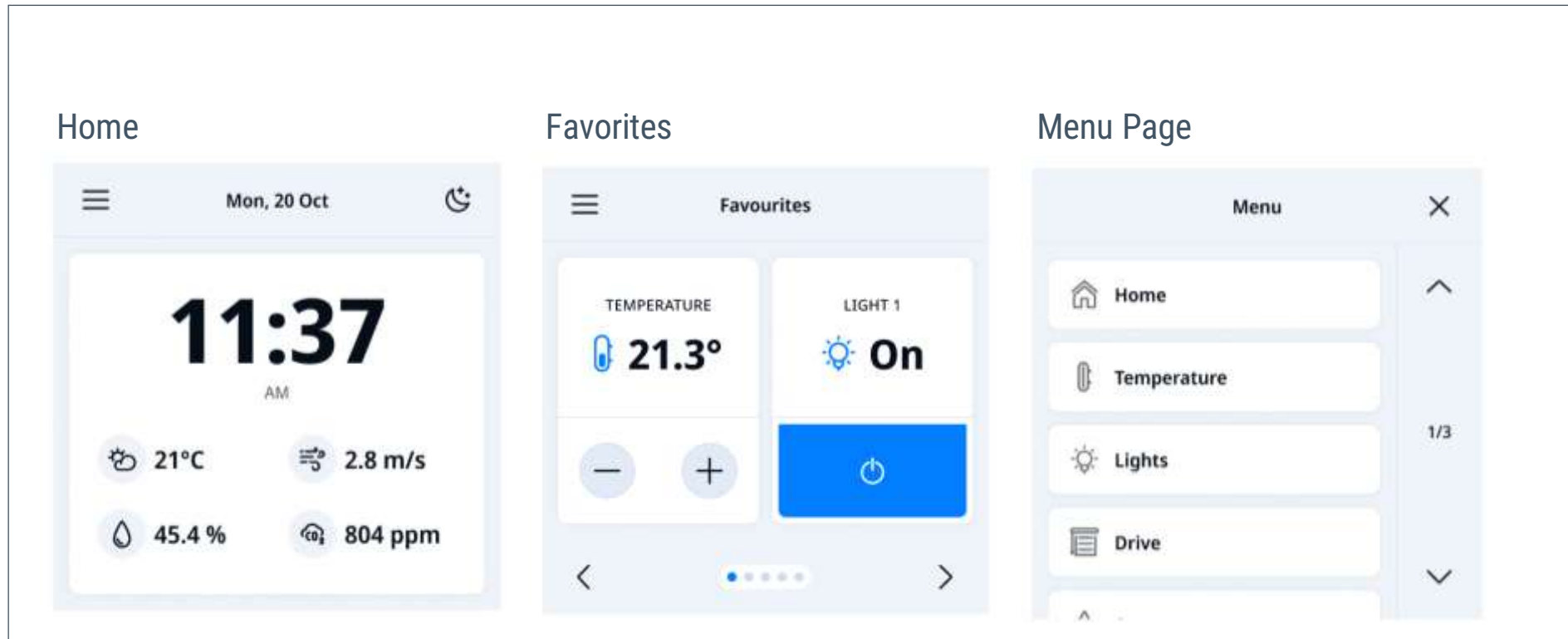
| Room Controller

- Follow-up to Cala Touch KNX
- In black and white
- Also available as an AQS sensor with CO2
- KNX-Data-Secure for encrypted data transmission
- An all-in-one solution for controlling lighting, shading, windows, heating/air conditioning, and scenes
- In addition: Human Centric Lighting, RGBW, summer compensation for cooling systems, timers, logic functions, multifunction modules, control variable comparators
- Dark Mode & Light Mode
- Inputs



Cala Touch 2.5in KNX sec

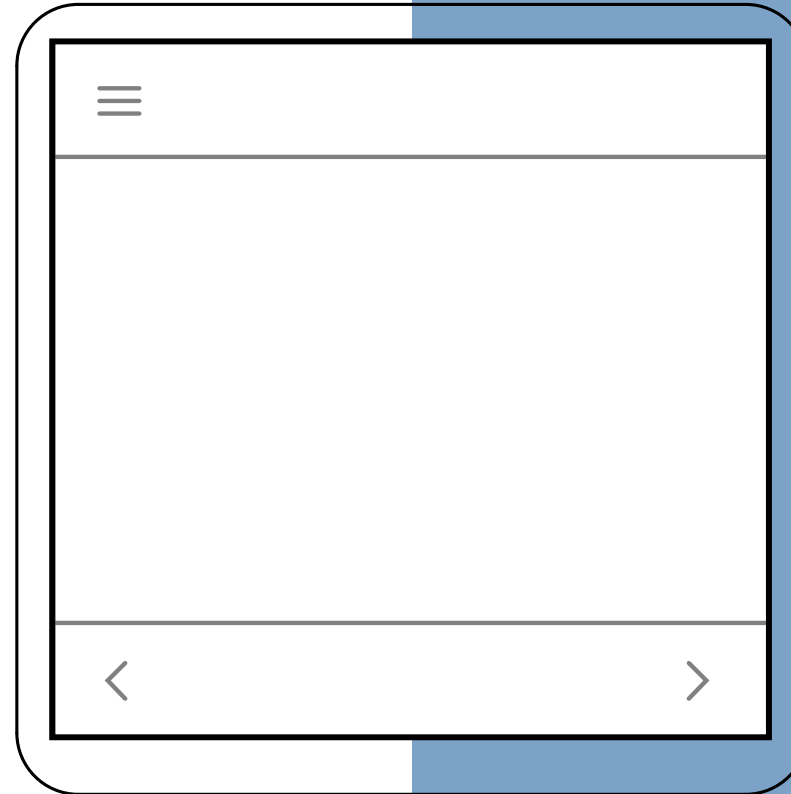
| Screens



eTR Touch 3.4in KNX sec

| Room Controller

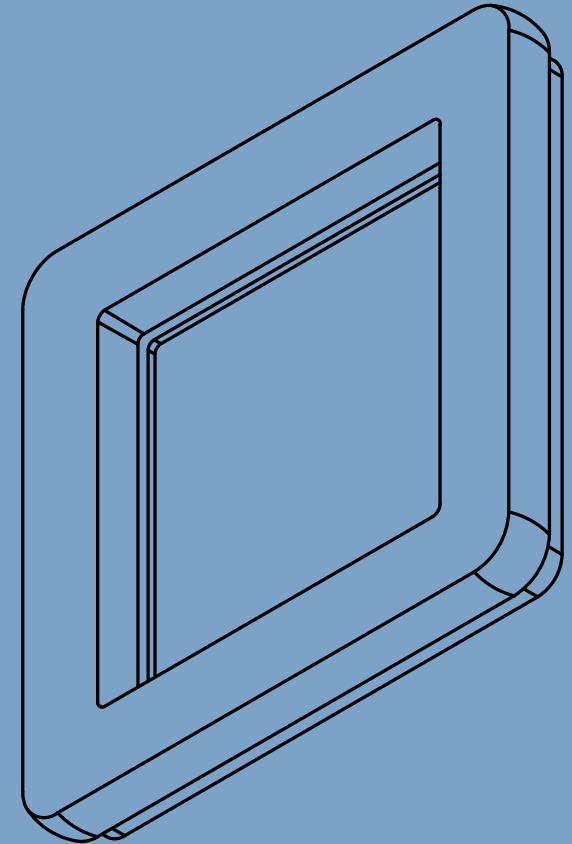
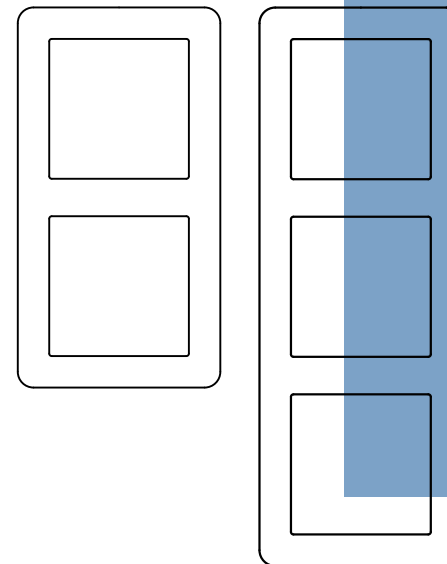
- touch display for the eTR series
- In black and white
- Also available as an AQS sensor with CO2
- KNX-Data-Secure for encrypted data transmission
- Features similar to Cala Touch: an all-in-one solution for controlling lighting, shading, windows, heating/air conditioning, and scenes
- In addition: Human Centric Lighting, RGBW, summer compensation for cooling systems, timers, logic functions, multifunction modules, control variable comparators
- Dark Mode & Light Mode
- Inputs



eTR Glass Cover Frame

| For 55 mm inserts

- Design of the eTR Series for 55 mm switch series
- Simply add standard outlets, etc., to the Elsner eTR sensors.
- The eTR and Cala series can be combined with standard outlets and switches
- Available in black and white as single, double, or triple frames



Windancer Modbus

| Modbus Weather Station

Modbus weather station for

- Temperature
- Brightness
- Wind speed
- Precipitation
- Optional with GPS receiver



05 | Visualization & Reporting

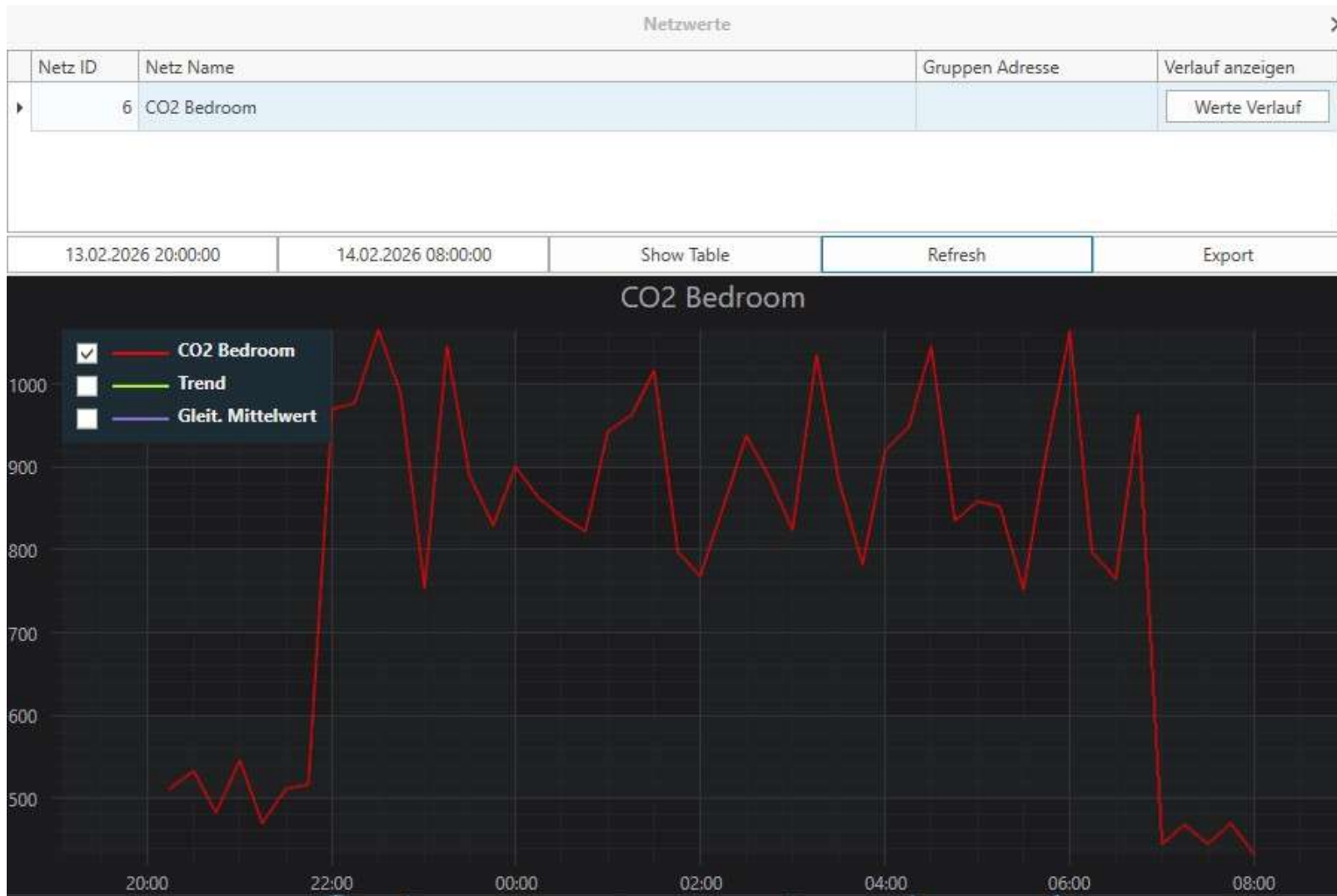
Visualization

| Floor plan



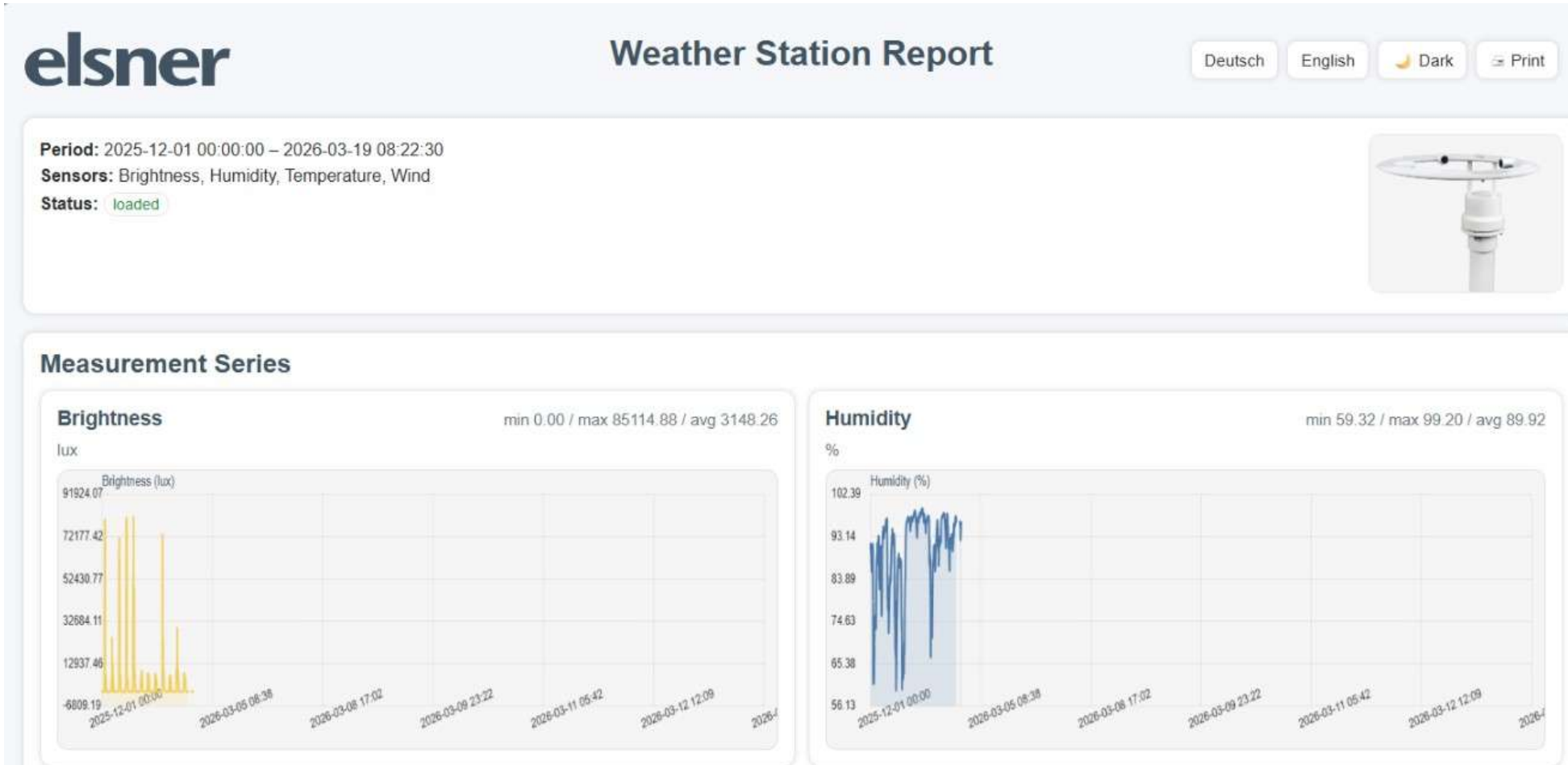
Visualization

| Display of CO2 Levels



Visualization

| Weather Report



Visualization

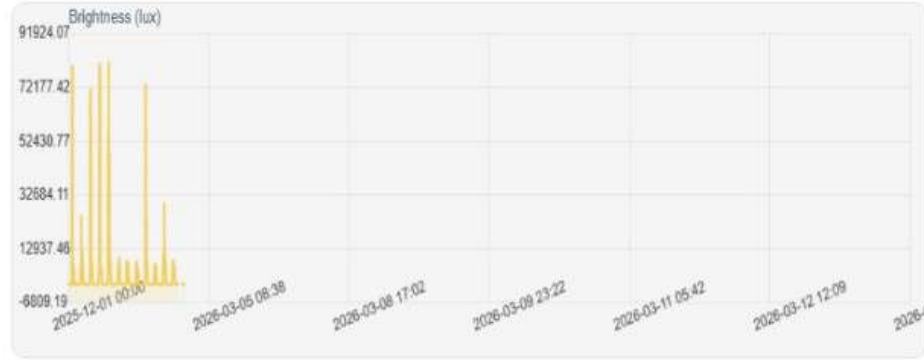
| Weather Report

Measurement Series

Brightness

min 0.00 / max 85114.88 / avg 3148.26

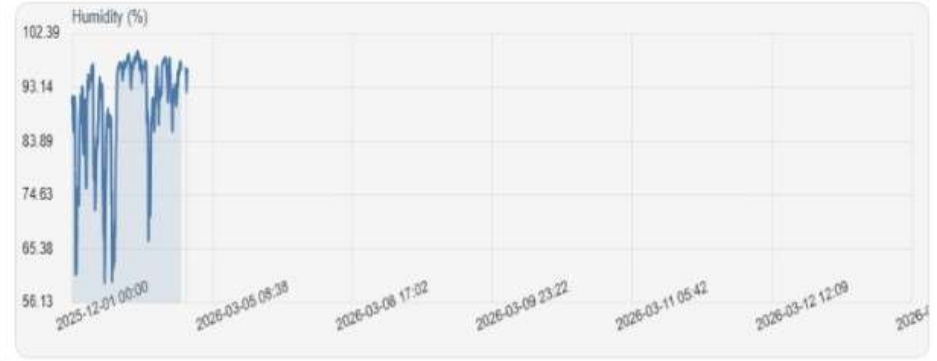
lux



Humidity

min 59.32 / max 99.20 / avg 89.92

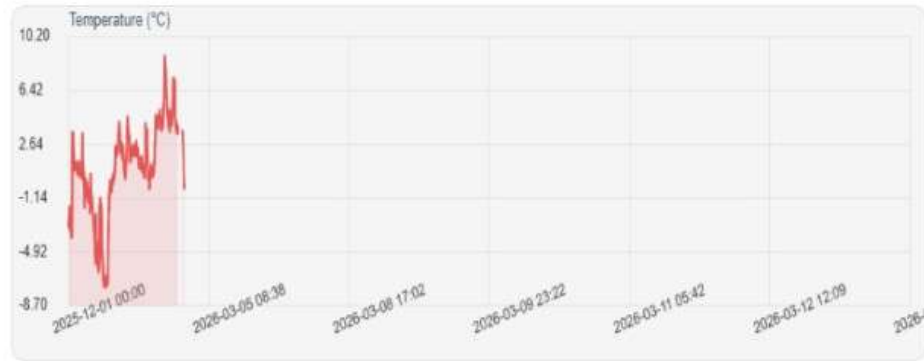
%



Temperature

min -7.40 / max 8.90 / avg 0.93

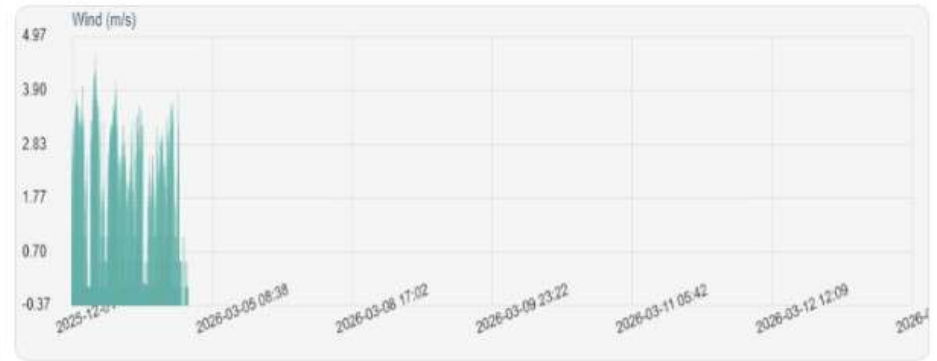
°C



Wind

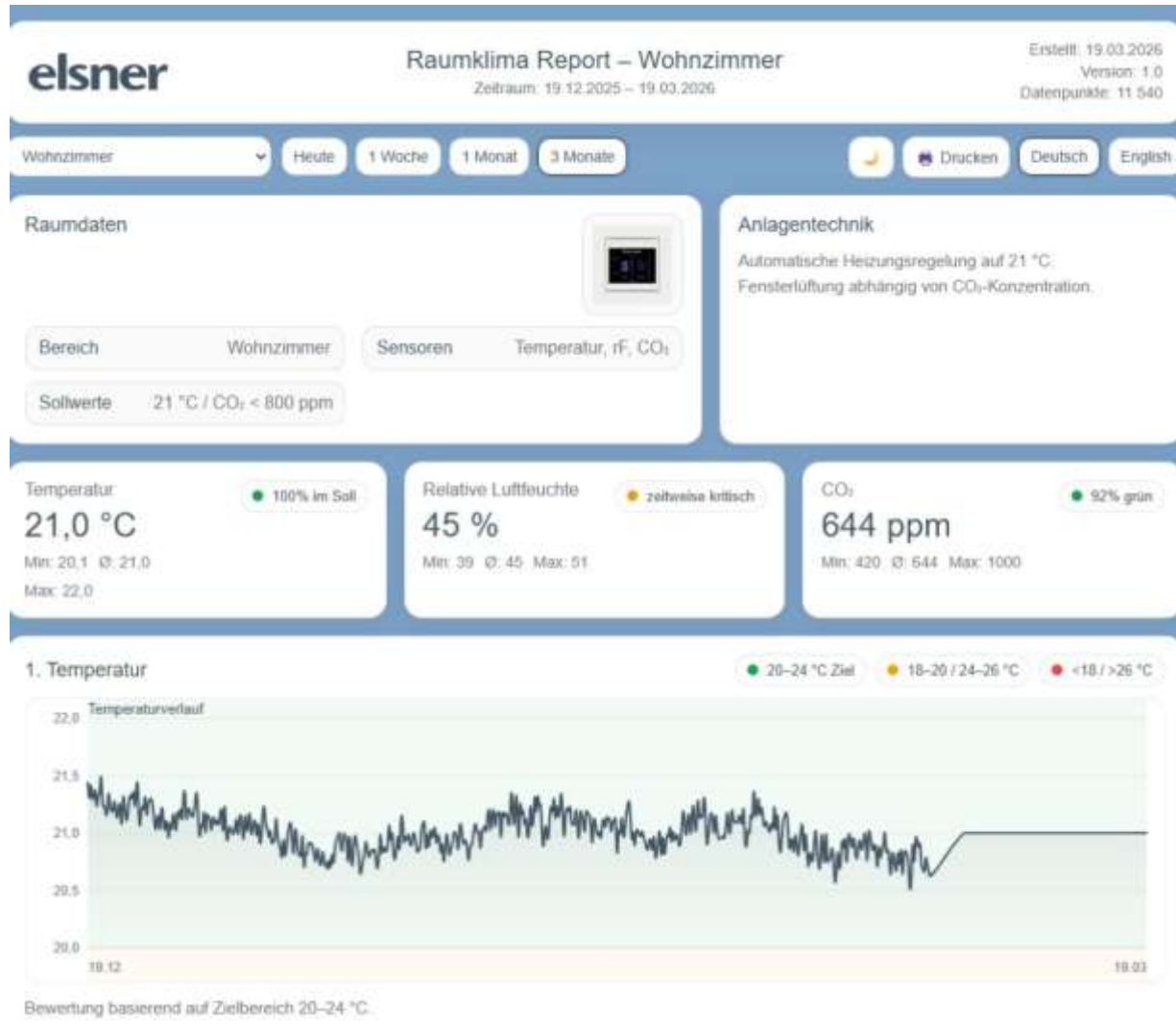
min 0.00 / max 4.60 / avg 0.92

m/s



Visualization

| Indoor Climate Report



Light + Building Online Review

| Trade fair landing page

Would you like to take another look at all the products on display at your leisure? Have a look at our dedicated landing page for Light + Building 2026!

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