elsner®
elektronik

BUILDING AUTOMATION

For KNX, RS485 and Modbus Bus Systems
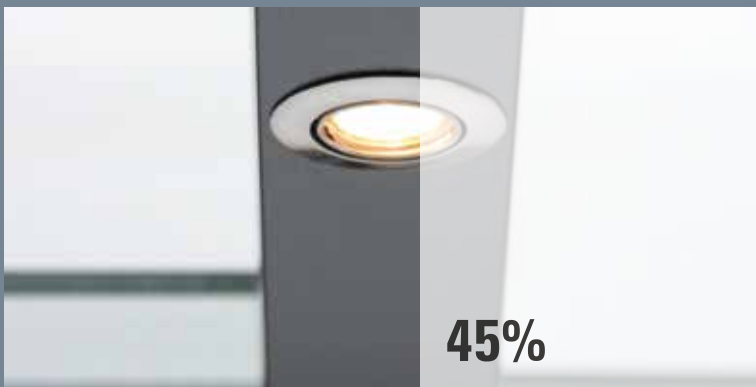and for Conventional Applications

19%

Automatic ventilation system:
Potential energy savings 19%* and more

28%

Individual room temperature control:
Potential energy savings 28%* and more

45%

Automatic lighting:
Potential energy savings 45%* and more

25%

Automatic solar protection:
Potential energy savings 25%* and more

GAIN COMFORT AND SECURITY, SAVE ENERGY

Building automation creates ideal room climate, protects equipment and the building structure, ensures systems work safely – and, as a bonus, saves energy and costs. The *Smart Home* as a vision of the future? No, the *intelligent house* is already reality today!

In **public and commercial buildings**, which are used by many people, automatic room climate control is already an everyday occurrence. Ventilation, heating and shading matched to requirements ensure ideal conditions 24 hours a day. Coordinating individual systems allows energy efficiency, which is not to be achieved by manual control.

Building systems offer the same benefits for **residential property**. Here, comfort, security and efficiency aspects are likewise closely interlinked. Building automation is also financially rewarding, as it reduces energy consumption. Investments are almost completely amortised after a timeframe of only a few years. This period is considerably longer for other energy saving measures around the home.

Building automation can be applied to different systems, e.g. safety systems, media systems, domestic appliances or energy management. However, it is the room climate that is fundamental for well-being in the building. Here, compact control solutions can already achieve great

Everyone profits from perfectly controlled building systems: Users, owners and managers of real estate ... and the environment.

effects: **Intelligent shading** will keep the building cool in summer, and solar heat is used in the cold season as a free heating source. The slat angle of blinds can be aligned according to the position of the sun. This helps to avoid direct solar irradiation while simultaneously enabling natural daylight illumination of the room to the largest possible extent. **Controlled ventilation** improves air quality in the room and prevents overheating or condensation forming, particularly in airtight insulated building shells. **Networking with heating and cooling systems** avoids energy losses.

Lighting control according to brightness, presence and time in large offices and presentation rooms is not only a simplification but holds real savings potential. **Security and alarm functions** protect buildings and systems and simplify monitoring of apartments, houses or entire complexes. When blinds are automatically protected against wind, windows open and close automatically or the light switches itself off, as soon as the last person left the room, then the Smart Home is reality.

As the international ISO/IEC 14543-3 standard, KNX is today's worldwide leading open standard for home and building system technology. Solar protection, heating, alarm system, ventilation, lighting or support electronic devices are only examples for the multitude of areas in a building that can be monitored and controlled using KNX. Ideal energy management is possible by networking.

Because all sensors (e.g. brightness sensors) and actuators (e.g. lights, awnings) are networked via the databus, the system is very amenable to conversion and expansion. How sensors and actuators react with each other (e.g. what inside temperature and what brightness are relevant for an awning) is configured by software and can be changed at any time. Extensions and additions are possible without any problems.

The enormous breadth of applications offers unique benefits, not only for the user and home owner, but earlier for planning and installation. The common standard generates new networking opportunities; all KNX-certified products are mutually compatible.

Detailed information about KNX, both for investors and for planners and architects is for instance available on www.knx.org.

BUILDING AUTOMATION WITH KNX

KNX WEATHER SENSORS

The weather stations and sensors provide the current meteorological data for KNX networks. The compact devices feature a combined fixture for wall/pole mounting and are configured by means of the ETS.

The **brightness sensor** not only recognizes sunlight, but also twilight. For this, filters simulate the spectral sensitivity of the human eye.
The electronic **wind sensor** works noiselessly and reliably, even during hail, snow and subzero temperatures. Turbulent air and anabatic winds in the vicinity of the weather station are recorded, too.

The measuring surface of the **precipitation sensor** is heated, so that humidity dries immediately. On the one hand, this prevents false reports caused by fog or dew. On the other hand, the sensor recognizes quickly when it has stopped to rain or snow.

The **temperature sensor** transfers the outdoor temperature exactly and reliably to the KNX system. Devices with **GPS receiver** calculate the position of the sun, output the local time and are able to switch time functions (daily/week time switch). The output of the integrated **logic gates** can be set to 1 bit or 2 x 8 bits according to your needs.

Weather Stations suntracer® KNX sl

- Temperature sensor (-30…+50°C)
- Brightness sensor (0…150 000 lx)
- Wind speed sensor
- Heated precipitation sensor
- Switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- 8 multifunctional modules change input data by calculations, survey of a condition or transition of the data point type
- Frost protection for shading elements
- Housing for surface mounting, IP 44, white/translucent
- Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 12-40 V DC (12-28 V AC)

Suntracer KNX sl:
- Air pressure sensor 300-1100 hPa
- GPS receiver: output of local time and postion coordinates, calculation of the position of the sun, e. g. for tracking of shading elements and photovoltaic modules

- Calendar time switch (4 annual terms with 2 daily periods), week time switch (24 periods)
- Shading control for 8 fronts with tracking of the slats and shadow edge and with frost protection
- Summer compensation for cooling adjusts the room target temperature to the outdoor temperature via a characteristic curve

Suntracer KNX sl light:
- GPS receiver: output of local time and postion coordinates
- Calculation of the position of the sun
- Shading control for 5 fronts without tracking of the slats and shadow edge
- Calendar time switch (4 annual terms with 2 daily periods), week time switch (24 periods)
- Summer compensation for cooling adjusts the room target temperature to the outdoor temperature via a characteristic curve

Suntracer KNX sl basic:
- Without GPS receiver and time functions
- No automatic shading control

Suntracer KNX sl
N° 70154

GPS

Suntracer KNX sl light
N° 70155

Suntracer KNX sl basic
N° 70156

Wind Sensor KNX W sl

- Wind speed sensor
- 3 switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 12-40 V DC (12-28 V AC)

KNX W sl
N° 70158

Rain Sensor KNX R sl

- Heated precipitation sensor
- 2 switching outputs
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 12-40 V DC (12-28 V AC)

KNX R sl
N° 70159

Rain/Wind Sensor KNX RW sl

- Wind speed sensor
- Heated precipitation sensor
- 4 switching outputs, 3 adjustable limit values
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 12-40 V DC (12-28 V AC)

KNX RW sl
N° 70162

Brightness/Wind Sensor KNX LW sl

- Brightness sensor (0…150 000 lx)
- Wind speed sensor
- 9 switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 12-40 V DC (12-28 V AC)

KNX LW sl
N° 70164

Weather Stations suntracer® KNX

- Temperature sensor (-30…+50°C)
- 1 brightness sensor (0…150 000 lx)
- Wind speed sensor
- Precipitation sensor with 1.2 watt heating
- Calendar time switch (3 annual terms with 2 daily periods), week time switch (4 daily periods)
- Switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)

Suntracer KNX-GPS:
- GPS receiver
- Calculation of the position of the sun e. g. for tracking of shading elements and photovoltaic modules

- Shading control for 6 fronts with tracking of the slats and shadow edge
- Operating voltage: 12-40 V DC (12-28 V AC)

Suntracer KNX-GPS light:
- GPS receiver
- Calculation of the position of the sun
- Shading control for 5 fronts without tracking of the slats and shadow edge
- Operating voltage: available for 230 V AC or for 12-40 V DC (12-28 V AC)

Suntracer KNX basic:
- No GPS receiver, no time function
- No automatic shading control
- Operating voltage: available for 230 V AC or for 12-40 V DC (12-28 V AC)

Suntracer KNX-GPS
N° 3093

Suntracer KNX-GPS light
12-40 V DC (12-28 V AC)
N° 3094

Suntracer KNX-GPS light
230 V AC / N° 3090

Suntracer KNX basic
12-40 V DC (12-28 V AC)
N° 3096

Suntracer KNX basic
230 V AC / N° 3095

N° 70122 (230 V AC)

N° 70123 (12...40 V DC)

Wind Sensor KNX W

- Wind speed sensor
- 3 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- Housing for surface mounting, IP 44, white/translucent

- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: available for 230 V AC or for 12...40 V DC / 12...28 V AC

N° 70124 (230 V AC)
N° 70125 12...40 V DC)

Rain Sensor KNX R

- Precipitation sensor with 1.2 watt heating
- 1 switching output
- 4 AND and 4 OR logic gates (4 inputs each)
- Housing for surface mounting, IP 44, white/translucent

- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: available for 230 V AC or 12...40 V DC / 12...28 V AC

N° 70126 (230 V AC)

N° 70127 (12...40 V DC)

Rain/Wind Sensor KNX RW

- Wind speed sensor
- Precipitation sensor with 1.2 watt heating
- 4 switching outputs, 3 adjustable limit values
- 8 AND and 8 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: available for 230 V AC 12...40 V DC / 12...28 V AC

N° 70128 (230 V AC)

N° 70129 (12...40 V DC)

Brightness/Wind Sensor KNX LW

- 1 brightness sensor (0…150 000 lx)
- Wind speed sensor
- 9 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: available for 230 V AC or for 12...40 V DC / 12...28 V AC

N° 70119

Brightness Sensor KNX L

- 1 brightness sensor (0…150 000 lx)
- 3 switching outputs for day, 3 switching outputs for twilight/night, with adjustable limit values
- 8 AND and 8 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: bus voltage

N° 70157

Global Irradiance Sensor KNX PY

- Global irradiance sensor (Pyranometer)
- Output of radiation intensity in watts per squaremetre (0…2500 W/m2) or kilowatt hours per squaremetre (0…2196 kWh/m2)
- 4 switching outputs with limit values
- 2 AND and 2 OR logic gates (4 inputs each)

- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: bus voltage

KNX OUTDOOR SENSORS

The outdoor sensors are suitable for outdoor use because of their sturdy housing and protection category. But they can also be used indoors, like in production facilities.

The different types of sensors offer various additional functions: To calculate **mixed values,** values of other sensors are received via the bus and mixed with own measured values (percentage can be adjusted). The **summer compensation** for cooling adjusts the target temperature in the room to the outdoor temperature via a characteristic curve. **Multifunctional modules** change input data by calculations, survey of a condition or transition of the data point type. The output of **logic gates** can be set to 1 bit or 2 x 8 bit, according to your needs. The automatic functions and controllers are configured by means of the ETS.

Brightness Sensor Vari KNX 3L

- 3 brightness sensors (maximum or mixed value)
- 20 switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)

- For indoor and outdoor application
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Vari KNX 3L
N° 70382

Temperature Sensor Vari KNX T

- Temperature sensor with calculation of a mixed value
- PI controller for heating/cooling
- Summer compensation
- 4 switching outputs with limit values
- 8 modules for calculation, conditions, transition

- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor and outdoor application
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Vari KNX T
N° 70385

Combined Sensor Vari KNX TH

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- PI controller for heating, cooling, humidification and de-humidification
- Summer compensation
- 8 switching outputs with limit values

- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor and outdoor application
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Vari KNX TH
N° 70386

Vari KNX TH-D
N° 70388

Combined Sensor Vari KNX TH-D

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- Air pressure sensor
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)
- 12 switching outputs with limit values

- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor and outdoor application
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Vari KNX 3L-T
N° 70383

Combined Sensor Vari KNX 3L-T

- 3 brightness sensors (maximum or mixed value)
- Temperature sensor with calculation of a mixed value
- PI controller for heating/cooling
- Summer compensation
- 24 switching outputs with limit values

- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor and outdoor application
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Vari KNX 3L-TH
N° 70384

Combined Sensor Vari KNX 3L-TH

- 3 brightness sensors (maximum or mixed value)
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)
- 28 switching outputs with limit values

- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor and outdoor application
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Vari KNX 3L-TH-D
N° 70389

Combined Sensor Vari KNX 3L-TH-D

- 3 brightness sensors (maximum or mixed value)
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- Air pressure sensor
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)

- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 32 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor and outdoor application
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Vari KNX 3L-TH-D GPS
N° 70390

Combined Sensor Vari KNX 3L-TH-D GPS

- 3 brightness sensors (maximum or mixed value)
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- Air pressure sensor
- GPS receiver: output of current time and position coordinates, calculation of the solar position
- Calendar time switch (4 annual terms with 2 daily periods), week time switch (24 periods)
- PI controller for heating/cooling (temperature)
- Summer compensation

- PI controller for ventilation (humidity)
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 32 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- For outdoor use
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

GPS Receiver Vari KNX GPS

- Output of current time and position coordinates, calculation of the solar position
- Calendar time switch (4 annual terms with 2 daily periods), week time switch (24 periods)

- For outdoor use
- Housing for surface mounting, IP 44
- Approx. 65 x 80 x 30 (W x H x D, mm)
- Operating voltage: bus voltage

Temperature Sensor KNX T-AP

- Temperature Sensor (-30…+80°C)
- For indoor and outdoor application
- Calculation of mixed values
- PI controller for heating/cooling

- 4 switching outputs with limit values
- 4 AND and 4 OR logic gates (4 inputs each)
- Housing for surface mounting, IP 65, grey
- Approx. 65 x 93 x 38 (W x H x D, mm)

N° 70121

Temperature/Humidity Sensor KNX TH65-AP

- Temperature sensor (-30…+85°C)
- Humidity sensor (0…100%rF)
- For indoor and outdoor application
- Calculation of mixed values
- Monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)

- PI controller for ventilation (humidity)
- 7 switching outputs with limit values
- 4 AND and 4 OR logic gates (4 inputs each)
- Housing for surface mounting, IP 65, grey
- Approx. 65 x 93 x 38 (W x H x D, mm)
- Operating voltage: bus voltage

N° 70184

Temperature Sensors KNX T-UN

- Temperature sensor
- Extremely small sensor tip for use as a contact or feed probe for in- and outdoor applications, separate evaluation unit
- Calculation of mixed values
- PI controller for heating/cooling
- 4 AND and 4 OR logic gates (4 inputs each)
- Dimensions evaluation unit approx. 38 x 47 x 24 (W x H x D, mm). Cable length approx. 300 cm
- Operating voltage: bus voltage

KNX T-UN 130:
- Set of evaluation unit and sensor T-130
- 4 switching outputs with limit values
- Measurement range -30°C to +130°C
- Measuring sensor protection class: IP 68
- Length of sensor shell approx. 20 mm, Ø approx. 6 mm

KNX T-UN 100:
- Set of evaluation unit and sensor T-100
- 4 switching outputs with limit values
- Measurement range -35°C to +100°C
- Measuring sensor protection class: IP 43
- Length of sensor shell approx. 32 mm, Ø approx. 6 mm

KNX T6-UN-B4:
- Evaluation unit for up to 10 temperature sensors
- 6 temperature inputs for sensors T-100 or T-130 (sensors to be ordered seperately)
- 4 analog/digital inputs (also for sensors T-NTC)
- Overall 6 threshold values and 6 temperature controllers.

T-130 Sensor for KNX T6-UN-B4:
- Measurement range -30°C to +130°C
- Measuring sensor protection class: IP 68
- Length of sensor shell approx. 20 mm, Ø approx. 6 mm

T-100 Sensor for KNX T6-UN-B4:
- Measurement range -35°C to +100°C
- Measuring sensor protection class: IP 43
- Length of sensor shell approx. 32 mm, Ø approx. 6 mm

T-NTC:
- For indoor and outdoor applications
- Measurement range -30°C to +100°C
- e.g. for Corlo Touch Display
- length of sensor sleeve approx. 32 mm, Ø approx. 6 mm, cable length approx. 300 cm

KNX INDOOR SENSORS FOR WALL MOUNTING

The indoor sensors monitor the ambient climate. The sensors can process **mixed values** (e. g. room average). For this purpose values of other sensors are received via the bus and mixed with the own measured values (percentage can be adjusted).

The output of the integrated **logic gates** can also be set to 1 bit or 2 x 8 bit, according to your needs. All devices have integrated PI controllers for one- or two-stage control and are configured by means of the ETS.

The **temperature sensor** measures temperature. The **humidity sensor** outputs the relative or absolute air humidity. The thermohygrometers additionally calculate the **dew point** and recognize, whether the measured values conform to the comfort field (DIN 1946).

The **CO$_2$ sensor** detects the concentration of carbon dioxide in the air and the mixed gas sensor detects the concentration of volatile organic compounds.

N° 70358 (white)

N° 70359 (alu)
N° 70360 (anthracite)
N° 70361 (stainless steel)

Temperature Sensor KNX T-B-UP

- Temperature sensor (0...+50°C)
- For indoor use
- Display for measured values, bus data (e. g. date, time), mode, bargraph for target value change
- Push buttons for use as bus buttons or for changing the target temperature and mode
- Calculation of mixed values
- PI controller for heating/cooling
- 3 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)

- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

Temperature Sensor KNX T-UP

- Temperature sensor (0…+50°C)
- For indoor use
- Display for measured values, bus data (e. g. date, time), mode
- Calculation of mixed values
- PI controller for heating/cooling
- 3 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket

- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70354 (white)

N° 70355 (alu)
N° 70356 (anthracite)
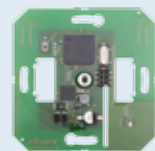*N° 70357 (stainless steel)*

Temperature Sensor KNX T-UP basic

- Temperature sensor (-25…+80°C)
- For indoor use
- Calculation of mixed values
- PI controller for heating/cooling
- 3 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket

- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70350 (white)
N° 70351 (alu)
N° 70352 (anthracite)
N° 70353 (stainless steel)

Temperature Sensor KNX T-Objekt-UP

- Temperature sensor (-20…+70°C)
- For indoor use
- Calculation of mixed values
- PI controller for heating/cooling
- 4 switching outputs with limit values
- 4 AND and 4 OR logic gates (4 inputs each)
- For wall mounting in a socket

- Completion with frame/cover of the switching series used in the building (not included in scope of delivery)
- Dimensions mounting plate/sensor board approx. 70 x 70 (B x H, mm)
- Operating voltage: bus voltage

N° 70179

Temperature/Humidity Sensor KNX TH-B-UP

- Temperature sensor (0…+50°C)
- Humidity sensor (0…100%rF)
- For indoor use
- Display for measured values, bus data (e. g. date, time), mode, bargraph for target value change
- Push buttons for use as bus buttons or for changing the target temperature and mode
- Calculation of mixed values
- Monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)
- PI controller for ventilation (humidity)
- 6 switching outputs with limit values

- Actuating variable comparator
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70370 (white)

N° 70374 (alu)
N° 70375 (anthracite)
N° 70376 (stainless steel)

N° 70366 (white)

N° 70367 (alu)
N° 70368 (anthracite)
N° 70369 (stainless steel)

Temperature/Humidity Sensor KNX TH-UP

- Temperature sensor (0…+50°C)
- Humidity sensor (0…100%rF)
- For indoor use
- Display for measured values, bus data (e. g. date, time), mode
- Calculation of mixed values
- Monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temp.)
- PI controller for ventilation (humidity)
- 6 switching outputs with limit values
- Actuating variable comparator

- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70362 (white)

N° 70363 (alu)
N° 70364 (anthracite)
N° 70365 (stainless steel)

Temperature/Humidity Sensor KNX TH-UP basic

- Temperature sensor (-25…+80°C)
- Humidity sensor (0…100%rF)
- For indoor use
- Calculation of mixed values
- Monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temp.)
- PI controller for ventilation (humidity)
- 6 switching outputs with limit values
- Actuating variable comparator
- 8 AND and 8 OR logic gates (4 inputs each)

- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70244 (white)

N° 70245 (alu)
N° 70246 (anthracite)
N° 70247 (stainless steel)

Mixed Gas Sensor KNX VOC-UP basic

- Mixed gas sensor detects volatile organic compounds (0…2000 ppm)
- For indoor use
- Calculation of mixed values
- PI controller for ventilation
- 2 actuating variable comparators
- 4 threshold-dependent switching outputs
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket

- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Auxiliary voltage: 12...24 V DC

N° 70229 (white)

N° 70230 (alu)
N° 70231 (anthracite)
N° 70232 (stainless steel)

Air Quality Sensor KNX AQS-B-UP

- CO_2 sensor (0…2000 ppm)
- For indoor use
- Display for measured values, bus data (e. g. date, time), mode, bargraph for target value change
- Push buttons (bus buttons) at the device
- Calculation of mixed values
- PI controller for ventilation
- 4 switching outputs with limit values
- 2 AND and 2 OR logic gates (4 inputs each)

- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

Air Quality Sensor KNX AQS-UP basic

- CO$_2$ sensor (0…2000 ppm)
- For indoor use
- Calculation of mixed values
- PI controller for ventilation
- 4 switching outputs with limit values
- 2 AND and 2 OR logic gates (4 inputs each)
- For wall mounting in a socket

- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70224 (white)

N° 70225 (alu)
N° 70226 (anthracite)
N° 70227 (stainless steel)

Combined Sensor KNX AQS/TH

- CO$_2$ sensor (0…2000 ppm)
- Temperature sensor (-10…+50°C)
- Humidity sensor (0…100%rF)
- For indoor use
- Calculation of mixed values
- Monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temp.)
- PI controller for ventilation (CO$_2$, humidity)

- 2 actuating variable comparators
- 11 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a junction box
- Housing plastic white (matt)
- Dimensions cover approx. 94 x 94 (W x H, mm), mounting depth 8 mm
- Operating voltage: bus voltage

N° 70161

Combined Sensor KNX AQS/TH-B-UP

- CO$_2$ sensor (0…2000 ppm)
- Temperature sensor (0…+50°C)
- Humidity sensor (0…100%rF)
- For indoor use
- Display for measured values, bus data (e. g. date, time), mode, bargraph for target value change
- Push buttons for use as bus buttons or for changing the target temperature and mode
- Calculation of mixed values
- Monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temp.)
- PI controller for ventilation (CO$_2$, humidity)

- 2 actuating variable comparators
- 9 switching outputs with limit values
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70239 (white)

N° 70240 (alu)
N° 70241 (anthracite)
N° 70242 (stainless steel)

Combined Sensor KNX AQS/TH-UP basic

- CO$_2$ sensor (0…2000 ppm)
- Temperature sensor (0…+50°C)
- Humidity sensor (0…100%rF)
- For indoor use
- Calculation of mixed values
- Monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temp.)
- PI controller for ventilation (CO$_2$, humidity)
- 2 actuating variable comparators
- 9 switching outputs with limit values

- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

N° 70234 (white)

N° 70235 (alu)
N° 70236 (anthracite)
N° 70237 (stainless steel)

GERMAN DESIGN AWARD SPECIAL 2016

Award for Sewi KNX

KNX INDOOR SENSORS FOR WALL/CEILING MOUNTING

The indoor sensors monitors not only the presence of persons and the brightness in a room, e.g. to switch light in an energy-optimized way, but also measures temperature, air humidity and CO_2 for ambient climate control. The various single and combined sensors offer the appropriate unit for every application. The different models have got various additional functions: To calculate **mixed values**, values of other sensors are received via the bus and mixed with own measured values.

The **summer compensation** for cooling adjusts the room target temperature to the outdoor temperature via a characteristic curve. **Multifunctional modules** change input data by calculations, survey of a condition or transition of the data point type. The output of the **logic gates** can be set to 1 bit or 2 x 8 bits according to your needs. The automatic functions and controllers are configured by means of the ETS.

NEW!

*Sewi KNX T
N° 70392*

Temperature Sensor Sewi KNX T

- Temperature sensor with calculation of a mixed value
- PI controller for heating/cooling (temperature)
- Summer compensation
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition

- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

*Sewi KNX TH
N° 70393*

Temperature/Humidity Sensor Sewi KNX TH

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)
- Switching outputs with limit values

- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

*Sewi KNX AQS
N° 70394*

Air Quality Sensor Sewi KNX AQS

- CO_2 sensor
- PI controller for ventilation
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators

- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

*Sewi KNX L
N° 70395*

Brightness Sensor Sewi KNX L

- Brightness sensor
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)

- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Combined Sensor Sewi KNX AQS/TH-D

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- CO_2 sensor
- Air pressure sensor
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity, CO2)

- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX AQS/TH-D
N° 70397

Combined Sensor Sewi KNX L-Pr

- Brightness sensor
- Presence detector (angle of detection 100° × 82°, range 5 m)
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition

- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX L Pr
N° 70396

Combined Sensor Sewi KNX TH L-Pr

- Brightness sensor
- Presence detector (angle of detection 100° × 82°, range 5 m)
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)

- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX TH L-Pr
N° 70398

Combined Sensor Sewi KNX AQS/TH-D L-Pr

- Brightness sensor
- Presence detector (angle of detection 100° × 82°, range 5 m)
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- CO_2 sensor
- Air pressure sensor
- PI controller for heating/cooling (temperature)
- Summer compensation

- PI controller for ventilation (humidity, CO2)
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX AQS/TH-D L-Pr
N° 70399

SENSORS FOR SPECIAL OPERATING AREAS

NEW!

Salva KNX
N° 70404

Salva KNX basic
N° 70405

Smoke Detector Salva KNX

- Smoke detector
- KNX connection
- Local alarm signal and forwarding of the signal to KNX; local acknowledgement of the alarm
- High operational safety through automatic self-test
- Reporting of polluted smoke chamber
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 40
- Diameter approx. 113 mm, hight 58 mm
- Power supply via battery (9 V); warning in case of low battery charge

Salva KNX:
- Smoke detector for smoke alarm, heat alarm or smoke/heat alarm
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- Air pressure sensor (mbar)
- Switching outputs with limit values for temperature, humidity, pressure
- PI controller for heating/cooling (temperature)
- PI controller for ventilation (humidity)

Salva KNX basic:
- Smoke detector for smoke alarm

KNX SO250 N° 70151

KNX SO250 basic
N° 70153

Ultrasound probe

Tank Sensor KNX SO250

- For recording the liquid level in tanks or for distance measurement
- Ultrasound probe (measurement range 12 to 250 cm)
- Setting via ETS (e.g. tank geometry, level)
- 5 threshold-dependent switching outputs (data output via KNX bus terminal)
- Ultrasound measuring probe, black, Ø approx. 60 mm, height approx. 45 mm, 1½" thread
- Suitable for water and heating oil
- 10 m lead

KNX SO250:
- Evaluation unit with display (e.g. for displaying level/distance) and keypad
- 2 additional output relays (setting via keypad)
- Evaluation unit for series installation, 7U, white, approx. 123 x 89 x 61 (W x H x D, mm)
- Operating voltage: 230 V AC

KNX SO250 basic:
- Evaluation unit for series installation, 3U, white, approx. 53 x 88 x 60 (W x H x D, mm)
- Operating voltage: bus voltage

N° 70312

N° 70310

Ground Sensors with KNX I4-ERD Evaluation Unit

- For monitoring ground temperature and moisture content
- Evaluation unit for up to 4 ground sensors
- 2 threshold-dependent switching outputs for moisture and temperature per sensor

KNX I4-ERD Evaluation Unit:
- 6U series installation housing, white, approx. 107 x 88 x 60 (W x H x D, mm)
- Operating voltage: 230 V AC

TH-ERD Ground Sensor:
- Temperature measurement (-55...125°C)
- Moisture measurement (possible measurement in a temperature range of -10 to 70°C)
- Only for KNX I4-ERD
- Approx. 32 x 220 x 10 (W x H x D, mm), cable length approx. 10 m, may be extended to 100 m

KNX ACTUATORS

Actuators control blinds, awnings, roller shutters or windows in the KNX system. The automatic may be set externally or internally. The internal automatic of the actuators of the KNX S series offers numerous options for blocking, locking (e.g. master–slave) and priority settings (e.g. manual – automatic). Movement positions and sequences may be stored and recalled via the bus. The slats of blinds can be tracked according to the position of the sun.

Actuators for Shadings/Windows KNX S-UP

- Automatic functions for shading, window
- 8 channel scene control
- Binary inputs (direct operation/bus key):
  KNX S-B4T-UP with 4 binary inputs and 1 temperature sensor input,
  KNX S-B2-UP with 2 binary inputs,
  KNX S-UP without inputs
- Flush mounting in a socket
- Approx. 50 x 51 x 41 (W x H x D, mm)

230 V version:
- For a 230 V AC drive (fused with T6.3A)
- Operating voltage: 230 V AC

24 V version:
- For a 24 V DC polarity changer motor
- Operating voltage: 24 V DC
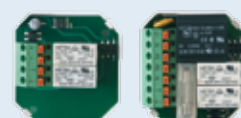
KNX S-UP
N° 70134 (24 V DC)
N° 70135 (230 V AC)

KNX S-B2 UP
N° 70132 (24 V DC)
N° 70133 (230 V AC)

KNX S-B4T-UP
N° 70130 (24 V DC)
N° 70131 (230 V AC)

Actuators KNX S1R-UP

- Low-wearing relays that switch in zero crossing of electric tension
- Motor run time variable by ETS parameters or active current metering
- Automatic functions for shading, window
- 16 channel scene control
- Analogue/digital inputs (e. g. for temperature sensor T-NTC or button Corlo M-T):
  KNX S1R-B4-UP with 4 inputs,
  KNX S1R-B2-UP with 2 inputs,
  KNX S1R-UP without inputs
- Flush mounting in a socket

- Approx. 50 x 50 x 54 (W x H x D, mm)

Multifunctional 230 V version:
- For one drive (1x up/down) or two switched devices (2x on/off),
- Potential-free output, max. 230 V AC, fused with T4.0 A
- Operating voltage: bus voltage

24 V version:
- For a 12/24 V DC polarity changer motor
- Operating voltage: bus voltage

KNX S1R-UP
N° 70201 (230 V)

KNX S1R-B2-UP
N° 70202 (230 V)

KNX S1R-B4-UP
N° 70203 (230 V)
N° 70206 (24 V)

Actuators KNX S1E-UP

- Non-wearing, noiseless electronical output
- Motor run time variable by ETS parameters or active current metering
- Automatic functions for shading, window
- 16 channel scene control
- Analogue/digital inputs (e. g. for temperature sensor T-NTC or button Corlo M-T):
  KNX S1E-B4-UP with 4 inputs,
  KNX S1E-B2-UP with 2 inputs,
  KNX S1E-UP without inputs
- Flush mounting in a socket
- Approx. 50 x 50 x 54 (W x H x D, mm)

230 V-Version:
- For one drive (1x up/down) or two switched devices (2x on/off), max. 230 V AC, capacity of max. 400 Watt
- Operating voltage: bus voltage

PS-Version (24 V):
- For a 24 V DC polarity changer motor, integrated power supply (230 V AC to 24 V DC, 0.5 A)
- Operating voltage: 230 V AC

KNX S1E-UP
N° 70207 (230 V)

KNX S1E-B2-UP
N° 70208 (230 V)

KNX S1E-B4-UP
N° 70209 (230 V)

KNX S1E-B4-UP PS
N° 70205

KNX S4-B10
N° 70137

KNX S1-B2
N° 70380

KNX S2-B6
N° 70381

KNX S4-B10, KNX S2-B6, KNX S1-B2 Multifunctional 230 V Actuators

- Outputs 230 V AC, each for one drive (1x up/down) or two switchable devices (2x on/off)
- Motor run time variable by ETS parameters or active current metering
- Automatic functions for shading, window, light
- 16 channel scene control
- For installation on DIN rail, with push button pairs and control LEDs
- Operating voltage: 230 V AC

KNX S4-B10 230 V:
- multifunctional outputs 230 V AC

- 10 binary inputs (direct operation/bus key)
- 6 units, approx. 107 x 88 x 60 (W x H x D, mm)

KNX S2-B6 230 V:
- 2 multifunctional outputs 230 V AC
- 6 binary inputs (direct operation/bus key)
- 6 units, approx. 107 x 88 x 60 (W x H x D, mm)

KNX S1-B2 230 V:
- 1 multifunctional output 230 V AC
- 2 binary inputs (direct operation/bus key)
- 3 units, approx. 53 x 88 x 60 (W x H x D, mm)

N° 70138

Actuator KNX S4-B12 24 V

- 4 outputs (up/down) for polarity changer motors (24 V DC with internal auxiliary voltage 24 V or 12 V DC with external auxiliary voltage)
- Motor run time variable by ETS parameters or active current metering
- Automatic functions for shading, window

- 16 channel scene control
- 12 binary inputs (direct operation/bus key)
- 4 key pairs and control LEDs
- For installation on DIN rail, 6 units, approx. 107 x 88 x 60 (W x H x D, mm)
- Operating voltage: 24 V DC

NEW!
N° 70204

Multifunctional Actuator KNX S1R-B4 PF

- Potential-free relay output for 1 drive (1x up/down) or two switchable devices (2x on/off)
- Motor run time variable by ETS parameters or active current metering
- Automatic functions for shading, window
- 16 channel scene control

- 4 temperature threshold values, logic gates
- 4 analogue/digital inputs e. g. for temperature sensors T-NTC or Corlo M-T
- For installation on DIN rail, 3 units, white, approx. 53 x 88 x 60 (W x H x D, mm)
- Operating voltage: bus voltage

KNX K8
N° 70321

KNX K4 N° 70320

Heating actuators KNX K4 and KNX K8

- Outputs for heating/cooling control (on/off or pulse width modulation) 230 V AC, 8 W per output
- Starting current max. 1.1 A per channel
- Internal temperature control (PI controller, one- or two-stage)
- For installation on DIN rail, with push button pairs and LEDs

KNX K4:
- 4 outputs
- Operating voltage: bus voltage
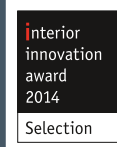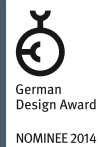- 3 units, approx. 53 x 88 x 60 (W x H x D, mm)

KNX K8:
- 8 outputs
- Auxiliary voltage: 230 V AC
- 6 units, approx. 107 x 88 x 60 (W x H x D, mm)

N° 70391

Control Module for Door Drives KNX A3-B2

- 3 outputs for control of a door (defined open/ close/stop, impulse or deadman mode)
- 2 binary inputs (for status query or as a bus push button)

- Approx. 38 x 47 x 29 (W x H x D, mm)
- Operating voltage: bus voltage
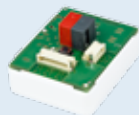
AWARD-WINNING PRODUCTS:
System Corlo: German Design Award Nominee, iF product design award, interior innovation award, Red Dot Winner, R+T Innovation Prize
Corlo Touch KNX: iF Design Award, Plus X Awards

SYSTEM CORLO

Real glass surfaces and chrome plated metal frames make the touch displays, push buttons and power outlets of System Corlo a highlight of high class interiors.
The System Corlo frames are available with a matt or glossy finish, custom colours for an individual interior design are also possible. Your colour concept can be further customised with the Corlo Touch's variable ambient lighting. For display, push button and power outlet, you have a choice of white or black glass surfaces.

Corlo Touch KNX Touch Switch and Display for KNX

- The **Corlo Touch KNX** display can be used as a touch switch, for automatic settings and as an info screen
- 10 display pages can be configured individually, with areas for operation and display (e.g. switch, rocker, rotary control and value display)
- Includes large set of icons. You can load your own icons from Micro-SD Card
- The brilliant 3.5" screen is also ideally suited for displaying photos
- Touch-sensitive glass interface
- Matt or glossy chromed edge (custom colours on request), white or black glass
- Ambient lighting with individually variable colours (RGB)
- Proximity sensor allows switching on approach and fast activation of the display from standby mode
- Brightness sensor for automatic adaption of the display lighting
- KNX connection for data transfer

- 4 inputs (as binary inputs or for temperature sensor)
- Micro SD card slot, e. g. as storage for image data. USB Interface
- Internal automatic functions for ventilation, shading (solar/visual protection), room climate control (heating, cooling) and light
- Internal scene control, timer and wake-up function
- 4 AND and 4 OR logic gates (each with 4 inputs, output in each case 1 bit/2×8 bits)
- Mounting with Frame Corlo in socket
- Approx. 80 × 71 × 49 (W × H × D, mm), mounting depth approx. 12.5 mm
- Operating voltage: 12...24 V DC
- **Corlo Touch KNX WL model:** WLAN-interface allows e.g. smartphone control, display of web pages and IP camera images

Accessory: (not included)
- T-NTC temperature sensor (p. 52)

Corlo Touch black, in 1-gang glossy chromed frame

Corlo Touch white, in 3-gang matt chromed frame

NEU

CORLO APP

The **Corlo Mobile App** for Corlo Touch KNX WL allows you to make all of the settings via smartphone or tablet PC. The app can be downloaded for Apple iOS or Android.

Corlo Touch KNX

White / chrome glossy	Nº 70258
Black / chrome glossy	Nº 70259
White / chrome matt	Nº 70260
Black / chrome matt	Nº 70261
White / white matt	Nº 70336
Black / black matt	Nº 70337

Corlo Touch KNX WL

White / chrome glossy	Nº 70252
Black / chrome glossy	Nº 70253
White / chrome matt	Nº 70254
Black, chrome matt	Nº 70255
White / white matt	Nº 70334
Black / black matt	Nº 70335

SIMPLE INTEGRATION OF ELSNER PRODUCTS

Suntracer KNX sl
Weather Station

📅 🕐	Datum/Uhrzeit	*Date/Time*
Anforderung Datum/Uhrzeit	*Request Date/Time*	📅 🕐
💧	Niederschlag	*Precipitation*
🌡	Außentemperatur	*Outdoor temperature*
☀	Außenhelligkeit	*Light intensity outside*
☀→	Sonnenrichtung	*Direction of the sun (azimuth)*
☀	Sonnenhöhe	*Elevation of the sun*
🌬	Windgeschwindigkeit	*Wind speed*

Corlo Touch KNX
Touch Display

The example shows the installation of a shading automation with weather station Suntracer KNX sl, display Corlo Touch KNX and actuator KNX S1R-UP. The KNX applications of Elsner Elektronik products are coordinated, so that the integration can be completed with minimal effort.

KNX S1R-UP 230V
Actuator

	Jalousie Langzeit	Blind long-term
	Jalousie Kurzzeit	Blind short-term
	Jalousie Sicherheit	Blind safety
	Jalousie Position Höhe	Blind position height
	Jalousie Position Lamelle	Blind position slat

Rückmeldung Jalousie Position Höhe | Feedback blind position height

Rückmeldung Jalousie Position Lamelle | Feedback blind position slat

15:11

Corlo Push Buttons M-T

- Glass white or black, edge matt / glossy chromed or white / black coated
- Available as single push button Corlo M1-T and as double push button Corlo M2-T
- Integrated temperature sensor T-NTC
- Mounting with Frame Corlo in socket
- Approx. 80 × 71 × 12.5 (W × H × D, mm)

Corlo Push Buttons M1-T
White / chrome glossy	Nº 70282	Black / chrome matt	Nº 70285
Black / chrome glossy	Nº 70283	White / white matt	Nº 70338
White / chrome matt	Nº 70284	Black / black matt	Nº 70339

Corlo Push Buttons M2-T
White / chrome glossy	Nº 70286	Black / chrome matt	Nº 70289
Black / chrome glossy	Nº 70287	White / white matt	Nº 70340
White / chrome matt	Nº 70288	Black / black matt	Nº 70341

Solar-Wireless-Push Buttons p. 37

*Corlo Push Buttons M-T,
in glossy chromed frame*

Corlo Power Outlet

- White or black glass, matt / glossy chromed edge or white / black coated
- Integrated increased contact protection
- Mounting with Frame Corlo in socket
- Approx. 80 × 71 × 12.5 (W × H × D, mm)

Corlo Power Outlet
White / chrome glossy	Nº 70318	Black / chrome matt	Nº 70331
Black / chrome glossy	Nº 70319	White / white matt	Nº 70332
White / chrome matt	Nº 70330	Black / black matt	Nº 70333

*Corlo Power Outlet
in glossy chromed frame*

Frame Corlo

- 1-gang approx. 80 x 81, 2-gang approx. 80 x 153, 3-gang approx. 80 x 224 (W x H, mm), mounting depth approx. 12.5 mm
- Zinc-diecast, glass white or black, edge matt / glossy chromed or white / black coated (custom colours on request)

Frame Corlo for Corlo Touch KNX, Corlo Touch KNX WL, Corlo Power Outlet and Corlo Push Button M-T

Frame Corlo chrome glossy
1-gang	Nº 70264
2-gang	Nº 70265
3-gang	Nº 70266

Frame Corlo chrome matt
1-gang	Nº 70267
2-gang	Nº 70268
3-gang	Nº 70269

Frame Corlo white matt
1-gang	Nº 70346
2-gang	Nº 70347
3-gang	Nº 70348

Frame Corlo black matt
1-gang	Nº 70410
2-gang	Nº 70411
3-gang	Nº 70412
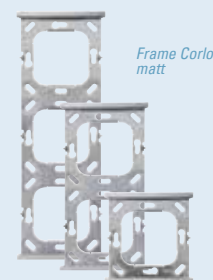
*Frame Corlo
matt*

CONTROL AND OPERATING CONSOLES FOR KNX

Control centres form the interface between building technology and user. Contact sensitive screens and intuitively comprehensible menu guidance help to set the integrated controller functions and operate the house systems "with a fingertip". Basic function assignments are set by the installer in the ETS.

Touchpanel Touch One® Style for Room Automation

- Free configurable display and operation elements
- Graphic weather data display
- Internal automatic functions for shading (sun protection/screen), control of room conditions (heating, cooling, ventilation) and illumination
- Bus functions for time and scene control
- Integrated indoor sensor (temperature, humidity)
- 4 binary inputs (e. g. for push buttons)
- KNX plug connector for data transfer

- Glass front in white/grey or dark grey/black, with 5.7" colour touch display
- Flush or cavity wall mounting (housing for surface mounting available separately)
- Dimensions approx. 181 x 131 (W x H, mm), mounting depth approx. 8 mm, concealed box approx. 172 x 122 x 81 (W x H x D, mm)
- Operating voltage: 12...28 V AC (12...40 V DC)

Accessory: (not included)
- Remote Control Remo 8 (p. 38)

*Nº 70197 (white)
Nº 70198 (black)*

Touchpanel Touch One® for Room Automation

- Free configurable display and operation elements
- Graphic weather data display
- Internal automatic functions for shading (sun protection/screen), control of room conditions (heating, cooling, ventilation) and illumination
- Bus functions for time and scene control
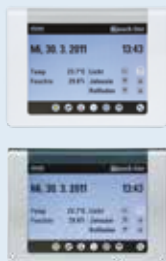- Integrated temperature/humidity sensor
- 4 binary inputs (e. g. for push buttons)
- KNX plug connector for data transfer

N° 70195 (white)
N° 70196 (alu)

- Colour touch display 5.7 inches
- Housing plastic white/grey or alu/graphite (partly painted)
- Housing for surface mounting, feeding of cables via a socket
- Approx. 164 x 121 x 29 (W x H x D, mm)
- Operating voltage: 12...28 V AC (12...40 V DC))

Accessory: (not included)
- Remote Control Remo 8 (p. 38)

Control System KNX WS1000 Style

- Graphic weather data display
- Internal automatic functions for shading (awning, blind, roller shutter)
- Internal automatic functions for ventilation (windows, fans)
- Internal light control
- Time switch
- KNX plug connector for data transfer
- 32 radio channels for special wireless relays and motor control units, ventilation units, sensors and for remote control
- Supply of weather data via KNX or by direct connection of a weather station (see accessories)
- Display of pictures/slideshow (via SD card)
- Colour touch display 8.4 inches

N° 70193 (white)
N° 70194 (black)

- Glass front in white/grey or dark grey/black
- For wall or cavity wall mounting
- Approx. 270 x 185 (W x H, mm),
- mounting depth approx. 9 mm, concealed box approx. 254 x 171 x 85 (W x H x D, mm)
- Operating voltage: 230 V AC

Accessory: (not included)
- Weather station P03i-GPS / P04i-GPS
- Interface for 2 video cameras (p. 35)
- Radio Relays RF Relay and Motor Control Units (p. 36)
- Radio Ventilation WL-Z400, WL400, WL800 (p. 48)
- Radio Temperature Sensor WGT and Thermo/ Hygrometer WGTH-UP (p. 34)
- Remote Control Remo 8 (p. 38)

Control System KNX WS1000 Color

- Graphic weather data display
- Internal automatic functions for shading (awning, blind, roller blind)
- Internal automatic functions for ventilation (windows, fans)
- Internal light control
- Time switch
- KNX plug connector for data transfer
- 32 radio channels for special wireless relays and motor control units, ventilation units, sensors and for remote control
- Supply of weather data via KNX or by direct connection of a weather station (see accessories)
- 8.4" colour touch display

- Housing plastic white/grey or alu/graphite (partly painted)
- For wall or cavity wall mounting
- Approx. 250 x 182 x 43, concealed box approx. 235 x 169 x 62 (W x H x D, mm)
- Operating voltage: 230 V AC

Accessory: (not included)
- Weather station P03i-GPS / P04i-GPS
- Interface for 2 video cameras (p. 35)
- Radio Relays RF Relay and Motor Control Units (p. 36)
- Radio Ventilation WL-Z400, WL400, WL800 (p. 48)
- Radio Temperature Sensor WGT and Thermo/ Hygrometer WGTH-UP (p. 34)
- Remote Control Remo 8 (p. 38)

N° 70191 (white)
N° 70192 (alu)

Weather Stations P03i-GPS and P04i-GPS for KNX WS1000

- For direct connection to KNX WS1000 Color / KNX WS1000 Style control system
- Temperature sensor
- 1 brightness sensor
- Wind speed sensor
- Heated precipitation sensor

- GPS receiver
- Housing for surface mounting, IP 44, white/ translucent
- P03i: approx. 96 x 77 x 118 (W x H x D, mm)
- P04i: approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 24 V DC

P03i-GPS
N° 30114

P04i-GPS
N° 30136

KNX FS6 Facade Control

- Shading control for up to 6 facades
- Tracking of the slats and shadow edge
- Logic gates (AND/OR)

- Installation on DIN rail (3 units), white, approx. 53 x 88 x 60 (W x H x D, mm)
- Operating voltage: bus voltage

N° 70136

KNX INTERFACES

KNX Interface for WS1000 Color/Style

- Use of Control System data in the KNX system (e. g. weather data)
- Automatic functions of the WS1000 can control drives in the KNX system and request sensor data from the bus

- Interface and KNX connector are plugged onto the board of the control system
- Board approx. 53 x 7 x 30 (W x H x D, mm)
- For WS1000 Color and WS1000 Style as of version 1.45

N° 70190

Push Button Interface KNX B4-UP

- 4 binary inputs for conventional push buttons or auxiliary contacts
- Approx. 38 x 47 x 29 (W x H x D, mm)

- Connection lead 300 mm, can be extended up to 10 m
- Operating voltage: bus voltage
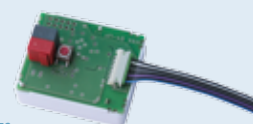
N° 70250

N° 70249

KNX B8-TH Interface

- 8 binary inputs
- 1 sensor input for temperature sensor T-UP basic N° 30520 or temperature/humidity sensor TH-UP basic N° 30525
- 1 sensor input for temperature sensor T-NTC-ST N° 30513
- Approx. 38 x 49 x 18 (W x H x D, mm)

N° 70199

IP KNX Interface

- Interface for data transfer from IP to KNX
- For Mobotix IP cameras (8 cameras with 8 input and 8 output objects each)
- Transfer of camera events to KNX bus
- Control of the camera via KNX bus
- KNX bus connector and IP port (POE)
- Installation on DIN rail 3 units, white, approx. 53 x 88 x 60 (W x H x D, mm)

KNX POWER SUPPLY UNITS

The power supply units deliver a 29 V bus voltage (reduced) and 24 V DC supply voltage for 24 V devices (not reduced). Special operating conditions such as short circuit, electrical surge, overcharge or excess temperature are recorded and may be read off on the display. The present power discharge is displayed as well. It is possible to reset the bus devices by means of the key pad.

N° 70140

Power Supply Unit KNX PS640

- 1 output for KNX bus voltage, output current of max. 640 mA, short-circuit proof
- 1 output for 24 V DC, output current of max. 150 mA
- Installation on DIN rail (7 units), white, approx. 123 x 89 x 61 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 70141

Power Supply Unit KNX PS640+

- 1 output for KNX bus voltage, output current of max. 640 mA, short-circuit proof
- 1 output for 24 V DC, output current of max. 150 mA
- Bus connector for data transfer to line/ main line/area
- Bus functions: transfer of malfunction messages and operating data, time/period reset, storage of malfunction messages
- Installation on DIN rail (7 units), white, approx. 123 x 89 x 61 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 70143

Power Supply Unit KNX PS640 USB

- 1 output for KNX bus voltage, output current of max. 640 mA, short-circuit proof
- 1 output for 24 V DC, output current of max. 150 mA
- USB connection for programming (ETS)
- Installation on DIN rail (7 units), white, approx. 123 x 89 x 61 (W x H x D, mm)
- Operating voltage: 230 V AC

Power Supply Unit KNX PS640+USB

- 1 output for KNX bus voltage, output current of max. 640 mA, short-circuit proof
- 1 output for 24 V DC, output current of max. 150 mA
- USB connection for programming (ETS)
- Bus connector for data transfer to line/ main line/area
- Bus functions: transfer of malfunction messages and operating data, time/period reset, storage of malfunction messages
- Installation on DIN rail (7 units), white, approx. 123 x 89 x 61 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 70144

Router with Power Supply Unit KNX PS640-IP

- 1 output for KNX bus voltage, output current of max. 640 mA, short-circuit proof
- 1 output for 24 V DC, output current of max. 150 mA
- Ethernet connection by RJ45 connector
- Routing (Ethernet as fast backbone for KNX data)
- Application as KNX line coupler
- Tunneling (bus access via IP, remote maintenance via LAN)
- Installation on DIN rail (7 units), white, approx. 123 x 89 x 61 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 70142

Router with Power Supply Unit KNX PS640+IP

- 1 output for KNX bus voltage, output current of max. 640 mA, short-circuit proof
- 1 output for 24 V DC, output current of max. 150 mA
- Bus connector for data transfer to line/ main line/area
- Bus functions: transfer of malfunction messages and operating data, time/period reset, storage of malfunction messages
- Ethernet connection by RJ45 connector
- Routing (Ethernet as fast backbone for KNX data)
- Application as KNX line coupler
- Tunneling (bus access via IP, remote maintenance via LAN)
- Installation on DIN rail (7 units), white, approx. 123 x 89 x 61 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 70145

Building control systems by Elsner Elektronik are complete packages with control unit, sensor systems and power electronics. This is why the devices are simple to install and set up, as well as convenient in operation. The central automatic control for example, takes over ideal shading and ventilation or facilitates manual movements of drives, such as awnings and rooflights.

Some control systems can be expanded by using wireless interfaces. The system is complemented as required with special wireless-based motor control devices, relays, key interfaces, etc. This is what makes the systems flexible to respond to any change in the use of the buildings or the demands of its occupants. Wireless communication is also particularly suitable for renovation and redevelopment.

CONTROL SYSTEMS

CONTROL SYSTEMS FOR BUILDINGS AND CONSERVATORIES

WS1000 and WS1 are control and operating units for building systems in conservatories, residential and smaller office properties. The automatic control ensures ideal room climate and offers **security and comfort functions**. In addition, the building's **energy budget** is optimized by the perfect interplay of the building technology systems.

The central element of the control is the touch-sensitive colour display. The connected devices are operated and settings changed here. The operator interface guides the user easily through the setting steps.

As soon as operations cease, the screen shows the current weather data, the sun's course or rain- and snowfall. To save energy, the display can darken automatically or switch off completely under low ambient light conditions. Drives and devices are connected directly to the controls. Wireless channels are also available for communication. Additional drives and devices can be controlled via wireless modules.

The most important automatic functions are **solar protection** and ventilation. Awnings, blinds and roller shutters are controlled by brightness and secondarily by sun direction and height.

The blind slat angle can be tracked according to the position of the sun. This prevents direct sun light, but maximises the natural daylight in the room. Also, the shades only move down when the desired room temperature is reached. This is how solar heat is utilised. Irrespective of this, the controls protect the connected shading against damage by wind or rain. An integrated timer allows the user to perform comfort functions, such as closing the blinds as visual protection.

The automatic **ventilation** is consistent with temperature and humidity. For example, windows are opened by night for cooling in summer, until the desired room temperature is reached. A rain alarm function protects furniture and equipment against moisture damage. Heating systems, ventilation equipment and climate control systems are also regulated by the controls, so that the desired room climate is maintained.

Safety in the building is enhanced by connecting smoke alarms and motion detectors. Control displays can show video camera images, e.g. for monitoring the entrance area. Even individual wishes, such as timing a pond pump or idyllic lighting of garden and house are turned into reality with the WS1000 and WS1 building control units.

Building Control System WS1000® Style

Scope of delivery: central unit, indoor sensor WGTH-UP (S. 34), weather station P03i-GPS (S. 34)

Central Unit WS1000 Style:

- 4, 6, 8 oder 10 drive outputs, 230 V AC or potential-free (version PF). For shadings, windows or sliding doors
- 4 multifunctional outputs for heating, cooling, supply air, alarm system, light, dimmer or gutter heating
- 4 multifunctional inputs for motion and smoke detectors, door contact, signal of a heating/cooling, of a camera or for reset
- Connection for 10 external push buttons, e. g. Corlo Push Buttons M-T (p. 37)

- 32 wireless channels for special wireless relays, motor control equipment, ventilation equipment, sensors and for key interface and remote control
- Integration in KNX bus system via optional interface
- Colour touch display 8.4 inches
- Display of pictures/slideshow (via SD card)
- Settings can be saved on SD card
- White/grey glass front (white indoor sensor) or dark grey/black (alu indoor sensor)
- For wall or cavity wall mounting
- Approx. 270 x 185 (W x H, mm), mounting depth approx. 9 mm, concealed box approx. 254 x 171 x 85 (W x H x D, mm)
- Operating voltage: 230 V AC

Colour white/grey:
WS1000 Style-4	N° 60201
WS1000 Style-6	N° 60202
WS1000 Style-8	N° 60203
WS1000 Style-10	N° 60204
WS1000 Style-4 PF	N° 60211
WS1000 Style-6 PF	N° 60212
WS1000 Style-8 PF	N° 60213
WS1000 Style-10 PF	N° 60214

Colour white/grey:
WS1000 Style-4	N° 60206
WS1000 Style-6	N° 60207
WS1000 Style-8	N° 60208
WS1000 Style-10	N° 60209
WS1000 Style-4 PF	N° 60216
WS1000 Style-6 PF	N° 60217
WS1000 Style-8 PF	N° 60218
WS1000 Style-10 PF	N° 60219

Building Control System WS1® Style

Scope of delivery: central unit with integrated indoor sensor, weather station P03i-GPS (S. 34)

Central Unit WS1 Style:

- 1, 2, 3, 4 or no drive outputs, 230 V AC or potential-free (version PF). For shadings, windows or sliding doors.
- 2 multifunctional outputs for heating, cooling, supply air, alarm systems, light, dimmer or gutter heating
- 2 multifunctional inputs for motion and smoke detectors, closed contact (sliding door), signal of a heating/cooling, of a camera or for reset
- Connection for 4 external push buttons, e. g. Corlo Push Buttons M-T (p. 37)

- 32 wireless channels for special wireless relays, motor control equipment, sensors (e.g. WGTH-UP) and for key interface and remote control
- Colour touch display 5.7 inches
- Display of pictures/slideshow (via SD card)
- Settings can be saved on SD card
- Integrated temperature/air humidity sensor
- White/grey glass front or dark grey/black
- For wall or cavity wall mounting (housing for surface mounting available separately)
- Approx. 181 x 131 (W x H mm), mounting depth approx. 8 mm, concealed box approx. 172 x 122 x 81 (W x H x D, mm)
- Operating voltage: 230 V AC

Colour white/grey:
WS1 Style-0	N° 60180
WS1 Style-1	N° 60181
WS1 Style-2	N° 60182
WS1 Style-3	N° 60183
WS1 Style-4	N° 60184
WS1 Style-1 PF	N° 60191
WS1 Style-2 PF	N° 60192
WS1 Style-3 PF	N° 60193
WS1 Style-4 PF	N° 60194

Colour white/grey:
WS1 Style-0	N° 60185
WS1 Style-1	N° 60186
WS1 Style-2	N° 60187
WS1 Style-3	N° 60188
WS1 Style-4	N° 60189
WS1 Style-1 PF	N° 60196
WS1 Style-2 PF	N° 60197
WS1 Style-3 PF	N° 60198
WS1 Style-4 PF	N° 60199

Building Control System WS1000® Color

Scope of delivery: central unit, indoor sensor WGTH-UP (S. 34), weather station P03i-GPS (S. 34)

Central Unit WS1000 Color:

- 4, 6, 8 or 10 drive outputs, 230 V AC or potential-free (version PF). For shadings, windows or sliding doors
- 4 multifunctional outputs for heating, cooling, supply air, alarm systems, light, dimmer or gutter heating
- 4 multifunctional inputs for motion and smoke detectors, door contact, signal of a heating/cooling, of a camera or for reset
- Connection for 10 external push buttons, e. g. Corlo Push Buttons M-T (p. 37)
- 32 wireless channels for special wireless relays, motor control units, ventilation, sensors, for key interface and for remote control

- Integration in KNX bus system via optional interface
- Colour touch display 8.4 inches
- Display of pictures/slideshow (via SD card)
- Settings can be saved on SD card
- Housing plastic, partly painted
- Colours: white/grey (indoor sensor white) or alu/graphite (indoor sensor alu)
- For wall or cavity wall mounting
- Approx. 250 x 182 x 43, concealed box approx. 235 x 169 x 62 (W x H x D, mm)
- Operating voltage: 230 V AC

Colour white/grey:
WS1000 Color-4	N° 60121
WS1000 Color-6	N° 60122
WS1000 Color-8	N° 60123
WS1000 Color-10	N° 60124
WS1000 Color-4 Pf	N° 60161
WS1000 Color-6 Pf	N° 60162
WS1000 Color-8 Pf	N° 60163
WS1000 Color-10 Pf	N° 60164

Colour white/grey:
WS1000 Color-4	N° 60125
WS1000 Color-6	N° 60126
WS1000 Color-8	N° 60127
WS1000 Color-10	N° 60128
WS1000 Color-4 Pf	N° 60165
WS1000 Color-6 Pf	N° 60166
WS1000 Color-8 Pf	N° 60167
WS1000 Color-10 Pf	N° 60168

Colour white/grey:
WS 1 Color-0   N° 60145
WS 1 Color-1   N° 60135
WS 1 Color-2   N° 60136
WS 1 Color-3   N° 60137
WS 1 Color-4   N° 60138
WS 1 Color-1 Pf   N° 60171
WS 1 Color-2 Pf   N° 60172
WS 1 Color-3 Pf   N° 60173
WS 1 Color-4 Pf   N° 60174

Colour alu/graphit:
WS 1 Color-0   N° 60146
WS 1 Color-1   N° 60139
WS 1 Color-2   N° 60140
WS 1 Color-3   N° 60141
WS 1 Color-4   N° 60142
WS 1 Color-1 Pf   N° 60175
WS 1 Color-2 Pf   N° 60176
WS 1 Color-3 Pf   N° 60177
WS 1 Color-4 Pf   N° 60178

Control System WS1® Color

Scope of delivery: central unit with integrated indoor sensor, weather station P03i-GPS (see below)

Central Unit WS1 Color:
- 1, 2, 3, 4 or no drive ouputs, 230 V AC or potential-free (version PF). For shadings, windows or sliding doors
- 2 multifunctional outputs for heating, cooling, supply air, alarm systems, light, dimmer or gutter heating
- 2 multifunctional inputs for motion and smoke detectors, door contact, signal of a heating/cooling, of a camera or for reset
- Connection for 4 external push buttons, e. g. Corlo Push Buttons M-T (p. 37)

- 32 wireless channels for special wireless relays, motor control equipment, sensors (e.g. WGTH-UP) and for key interface and remote control
- Integrated indoor sensor for temperature, and air humidity
- Colour touch display 5.7 inches
- Housing plastic white/grey or alu/graphite (partly painted)
- For wall or cavity wall mounting (housing for surface mounting available separately)
- Approx. 164 x 121 x 29, concealed box approx. 152 x 92 x 62 (W x H x D, mm)
- Operating voltage: 230 V AC

ACCESSORIES FOR WS1® AND WS1000®
For hard-wired motor control equipment, power supply units and relays, see p. 55 et seq.

P03i-GPS N° 30114

P04i-GPS N° 30136

Weather Stations P03i-GPS and P04i-GPS

- Temperature, precipitation, wind speed and brightness recording
- Sun position calculation by the controller
- GPS receiver (time, position)

- Housing for surface mounting, IP 44, white/translucent
- P03i: Approx. 96 x 77 x 118 (W x H x D, mm)
- P04i: Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 24 V DC

WGTH-UP
N° 20550 (white)
N° 20551 (alu)

WG AQS/TH-UP
N° 20553 (white)
N° 20554 (alu)

Indoor Sensors WGTH-UP and WG AQS/TH-UP

- Wireless communication with central unit
- Housing plastic white (glossy) or alu (painted, matt)
- For wall mounting in a socket
- Including frame (housing compatible with all 55 mm production frames)
- Operating voltage: 7…30 V DC
- Radio frequency 868.2 MHz

WGTH-UP:
- WS1000 includes in delivery
- Measurement of temperature and air humidity

WG AQS/TH-UP:
- Measurement of CO_2 content, temperature and air humidity
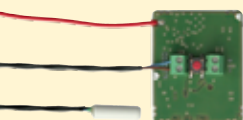
N° 20552

Temperature sensor WGT

- Temperature sensor (-30…+130°C) with separate evaluation unit
- Extremely small sensor tip for use as a contact or feed probe
- Protection category of the measuring sensor: IP 68

- Length of sensor sleeve approx. 20 mm, Ø approx. 6 mm, cable length approx. 300 cm. Dimensions evaluation electronics approx. 38 x 47 x 24 (W x H x D, mm)
- Operating voltage: 7…30 V DC
- For controls as of version 1.51
- Radio frequency 868.2 MHz

Radio Ventilation Module RF-VM

- For an air supply/exhaust device or a fresh air/heating combination (products of other manufacturers)
- 8 speed levels
- Direct manual control with Remote Control Remo 8 or with RF-B2-UP possible (see above)
- Operating voltage: 230 VAC, 50 Hz

- For flush mounting
- Cover approx. 220 x 140 (W x H, mm), mounting depth approx. 3 mm. concealed box approx. 200x120x64 (W x H x D, mm)
- For controls as of version 1.597
- Radio frequency 868,2 MHz
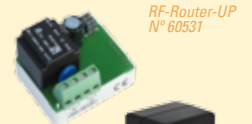
N° 60537

Additional Antenna

- Improves reception/transmission intensity
- Connection at the display board

- Total length of antenna with cable approx. 565 mm

N° 60131

RF-Router (Wireless Router)

- Increases the range of the wireless signal for 16 wireless subscribers
- Operating voltage: 230 V AC
- For WS1 and WS1000 Color/Style as of version 1.708

RF-Router-UP:
- Built-in device, approx. 38 x 47 x 29 (W x H x D, mm)

RF-Router-N:
- Adapter plug for plug/power outlet CEE 7/4

RF-Router-UP
N° 60531

NEW!

RF-Router-N
N° 60529

Camera Interfaces for WS1000 and for WS1

- Display of the images on screen
- Interface is screwed on the board of the control system
- For Control Systems (KNX) WS1000 and WS1 (as of version 1.492)

(KNX) WS1000 Color
- 2 camera connections (Cinch, CCIR/PAL)

- Approx. 70 x 23 x 27 (W x H x D, mm)

WS1 Color and WS1000 Style
- 2 camera connections (Cinch, CCIR/PAL)
- Approx. 42 x 16 x 40 (W x H x D, mm)

WS1 Style
- 1 camera connection (BNC)
- Approx. 56 x 23 x 31 (W x H x D, mm)

For (KNX) WS1000 Color
N° 60132

For WS1 Style
N° 60148

For WS1 Color and (KNX) WS1000 Style
N° 60133

KNX Interface for WS1000 Color and WS1000 Style

- Use of data from the controller (e.g. weather data) in the KNX system
- The automatic functions of the WS1000 can control drives in the KNX system and request sensor data from the bus
- KNX plug connector for data transfer

- Interface and KNX plug connector are plugged onto the board of the control system
- Dimensions of board approx. 53 x 7 x 30 (W x H x D, mm)
- For WS1000 Color/Style as of version 1.45

N° 70190

Adapter Plugs for Display of WS1000 Color

- For Control Systems (KNX) WS1000 Color or Style
- Allow for the separate mounting of display and power electronics (for Style model: mounting of the display with concealed box)

- Connection with 8-wire/12-wire cable (12- wire when using the KNX interface), e. g. J-Y(St) 6x2x0.8, max. length 10 m
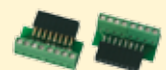
N° 60130

RADIO ACCESSORIES

RF-Relais-UP
N° 60534

RF-Relais-ST
N° 60536

RF-Relais-N
N° 60530

Radio Relay RF-Relay

- For 1 consumer load
- Direct manual control with Remote Control Remo 8, Push Buttons Corlo P RF or with RF-B2-UP possible (see above)
- Operating voltage: 230 V AC
- Radio frequency 868.2 MHz

RF-Relay-UP:
- Potential-free NO contact
- max. 2 A/230 V
- Integrated device for installation in junction box
- Approx. 38 x 47 x 29 (W x H x D, mm)
- For controls as of version 1.03

RF-Relay-ST:
- 230 V output
- max. 16 A/230 V
- Housing with STAS3 plug/STAK3 coupling
- Approx. 149 x 36 x 25 (W x H x D, mm)
- For controls as of version 1.20

RF-Relais-N:
- Adapter plug for plug/power outlet CEE 7/4 for 1 consumer load max. 10 A/230 V
- Approx. 149 x 36 x 25 (W x H x D, mm)
- For controls as of version 1.20

RF-L UN-ST
N° 60544

RF-L LED-ST
N° 60545

NEW!

RF-L-UP 1-10 V
N° 60547

Radio Dimmer RF-L

- For 1 lamp (or a group of lamps)
- Direct manual control with Remote Control Remo 8, Push Buttons Corlo P RF or with RF-B2-UP possible (see above)
- Operating voltage: 230 V AC
- Radio frequency 868.2 MHz

RF-L UN-ST:
- Universal dimmer with automatic load detection (trailing edge, leading edge), load 20-300 W
- For high/low voltage halogen lamps in conjunction with dimmable power supply units and for dimmable energy saving lamps
- For controls as of version 1.8
- Housing with STAS3 plug/STAK3 coupling
- Approx. 149 x 36 x 25 (W x H x D, mm)

RF-L LED-ST:
- Universal dimmer with automatic load detection (trailing edge, leading edge), load 20-300 W
- For dimmable LEDs in conjunction with dimmable power supply units
- For controls as of version 1.8
- Housing with STAS3 plug/STAK3 coupling
- Approx. 149 x 36 x 25 (W x H x D, mm)

RF-L-UP 1-10 V:
- 230 V switching output (6 A)
- 1-10 V control unit (dimming 1-100%)
- For electronic ballasts, LED converters, electronic power supply units for low voltage technology
- For controls as of version 1.818
- Flush mounting in a socket
- Approx. 50 x 50 x 54 (W x H x D, mm)
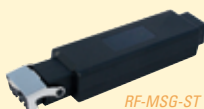
RF-MSG-ST
N° 60535

RF-MSG-PF
N° 60533

RF-MSG   N° 60532

Radio Motor Control Unit RF-MSG

- For 1 drive (230 V AC / 4 A max.)
- Direct manual control with Remote Control Remo 8, Push Buttons Corlo P RF or with RF-B2-UP possible (see above)
- For controls as of version 1.20
- Operating voltage: 230 V AC, 50 Hz
- Radio frequency 868.2 MHz

RF-MSG:
- 230 V drive output
- Integrated device for installation in junction box, with up/down clamps
- Approx. 38 x 47 x 29 (W x H x D, mm)

RF-MSG-PF:
- Potential-free drive output
- Integrated device for installation in junction box with up/down clamps
- Approx. 38 x 47 x 29 (W x H x D, mm)

RF-MSG-ST:
- 230 V drive output
- Housing with STAS3 plug/STAK3 coupling
- Approx. 149 x 36 x 25 (W x H x D, mm)

Radio Heating Module RF-HE-ST

- For radiant heater with 2 heating levels
- 50%, 100%, maximum of 16 A
- Automatic and manual control via WS1 and (KNX) WS1000 Color/Style (as of version 1.818)

- Direct manual control with Remote Control Remo 8, Push Buttons Corlo P RF or with RF-B2-UP
- Housing with STAS3 plug/STAK3 coupling
- Approx. 149 x 36 x 25 (W x H x D, mm)
- Operating voltage: 230 V AC

RF-HE-ST
N° 60546

NEW!

Corlo Push Buttons

- Glass white or black, edge matt / glossy chromed or white / black coated
- Approx. 80 × 71 × 12.5 (W × H × D, mm)

Corlo Push Buttons M-T:
- Mechanical push button
- Mounting with Frame *Corlo* in socket (see below)
- Integrated temperature sensor T-NTC
- Available as single push button Corlo M1-T and as double push button Corlo M2-T

Corlo Solar Wireless Push Button P RF:
- Wireless Push Button for drives/devices on controls WS1, WS1000
- For direct operation of ventilation units, relays, motor control units

- Energy supply through integrated solar panels. Additional emergency power supply through 3 V batterie (Typ CR2032)
- Mounting with Frame Corlo in socket or Frame *Corlo Plane* without socket (see below)
- Available as single push button Corlo P1 RF and as double push button Corlo P2 RF

Corlo Push Buttons M1-T			Corlo Push Buttons M2-T	
White / chrome glossy	*N° 70282*		*White / chrome glossy*	*N° 70286*
Black / chrome glossy	*N° 70283*		*Black / chrome glossy*	*N° 70287*
White / chrome matt	*N° 70284*		*White / chrome matt*	*N° 70288*
Black / chrome matt	*N° 70285*		*Black / chrome matt*	*N° 70289*
White / white matt	*N° 70338*		*White / white matt*	*N° 70340*
Black / black matt	*N° 70339*		*Black / black matt*	*N° 70341*

Corlo Push Buttons P1 RF			Corlo Push Buttons P2 RF	
White / chrome glossy	*N° 70290*		*White / chrome glossy*	*N° 70294*
Black / chrome glossy	*N° 70291*		*Black / chrome glossy*	*N° 70295*
White / chrome matt	*N° 70292*		*White / chrome matt*	*N° 70296*
Black / chrome matt	*N° 70293*		*Black / chrome matt*	*N° 70297*
White / white matt	*N° 70342*		*White / white matt*	*N° 70344*
Black / black matt	*N° 70343*		*Black / black matt*	*N° 70345*

Corlo Push Buttons M-T

Corlo Push Buttons P RF

Corlo Power Outlet

- White or black glass, matt / glossy chromed edge or white / black coated
- Integrated increased contact protection
- Mounting with Frame Corlo in socket

- Approx. 80 × 71 × 12.5 (W × H × D, mm)

Corlo Power Outlet			
White / chrome glossy	*N° 70318*	*White / white matt*	*N° 70332*
Black / chrome glossy	*N° 70319*	*Black / black matt*	*N° 70333*
White / chrome matt	*N° 70330*		
Black / chrome matt	*N° 70331*		

*Corlo Power Outlet
in glossy chromed frame*

Frame Corlo

System Corlo for KNX see Page 21

- Frame for System Corlo
- 1-gang approx. 80 x 81, 2-gang approx. 80 x 153, 3-gang approx. 80 x 224 (W x H, mm), mounting depth approx. 12.5 mm
- Zinc-diecast, glass white or black, edge matt / glossy chromed or white / black coated (custom colours on request)

Frame Corlo for Corlo Touch KNX, Corlo Touch KNX WL, Corlo Power Outlet and Corlo Push Button M-T
Frame Corlo Plane or Corlo Solar Wireless Push Button P RF

Frame Corlo Plane chrome glossy		Frame Corlo Plane white matt	
1-gang	*N° 70300*	*1-gang*	*N° 70413*
2-gang	*N° 70301*	*2-gang*	*N° 70414*
3-gang	*N° 70302*	*3-gang*	*N° 70415*

Frame Corlo Plane chrome matt		Frame Corlo Plane black matt	
1-gang	*N° 70303*	*1-gang*	*N° 70416*
2-gang	*N° 70304*	*2-gang*	*N° 70417*
3-gang	*N° 70305*	*3-gang*	*N° 70418*

Frame Corlo Plane chrome glossy		Frame Corlo Plane white matt	
1-gang	*N° 70264*	*1-gang*	*N° 70346*
2-gang	*N° 70265*	*2-gang*	*N° 70347*
3-gang	*N° 70266*	*3-gang*	*N° 70348*

Frame Corlo Plane chrome matt		Frame Corlo Plane black matt	
1-gang	*N° 70267*	*1-gang*	*N° 70410*
2-gang	*N° 70268*	*2-gang*	*N° 70411*
3-gang	*N° 70269*	*3-gang*	*N° 70412*
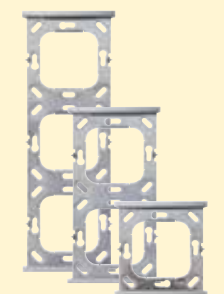
Frame Corlo matt

Radio Push Button Interface RF-B2-UP

- Radio Interface for 2 normal double switches
- For operating drives and equipment on WS1, WS1000, Solexa and Arexa controls
- For direct operation of fans, relays and motor control devices

- Power supply: 3 V battery type CR2032
- Approx. 38 x 47 x 29 (W x H x D, mm)
- Connection lead 300 mm, can be extended up to 10 m
- For controls as of version 1.597
- Radio frequency 868.2 MHz

An overview of the devices which can be operated with Remo 8, RF-B2-UP push button interface and Corlo Push Buttons is on page 38.
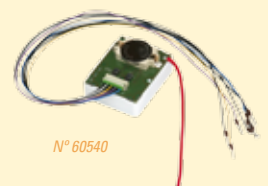
N° 60540

Remote Control Remo® 8   *The hand-held transmitter for building automation*

- Radio hand-held transmitter with 8 channels
- Button functions: up/down/stop, on/off, dimming (depending on the device to control)
- For control of the drives and devices installed at building control systems
- For direct manual control of ventilation units, relays and motor control units

- With magnetic wall-mounting
- Radio frequency 868.2 MHz
- Housing plastic white/grey or alu/graphite (partly painted)
- Hand-held transmitter approx. 41 x 140 x 21, mounting approx. 54 x 150 x 11 (W x H x D, mm)
- Power supply: 3 V battery type CR2032

Remote Control Remo 8, Radio Push Button Interface RF-B2-UP and Corlo Push Buttons are suitable for the following devices

Radio modules
RF-Relais *as of version 2.0*
RF-MSG and RF-Dimmer
RF-HE-ST
Patio Roof Control Lixa
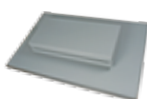
Ventilation units
Air Supply Unit WL-Z
Ventilation Unit WL400/800. WL 305/610
as of version 4.0

Steuerungen
(KNX) WS1000 Style/WS1 Style
(KNX) WS1000 Color/WS1 Color
as of version 1.1

Shading Control Solexa
as of version 3.6
Window Control Arexa
as of version 3.7
Radio Control Solexa II
Touch One Style / Touch One

N° 60511 (white)
N° 60512 (aluminium)

CONTROLS FOR SHADING AND WINDOW

Shading Control Solexa and Window Control Arexa consist of control unit and weather station. The drive mechanism of the sun screen/window is connected directly to the weather station. Several drives can be controlled simultaneously as a group at one single control by using an additional group control relay (e. g. for a number of roof windows at one Arexa).

The control unit has a display which shows the current weather information, mode and alarm messages. An indoor temperature sensor is integrated, too. The drives are operated manually and the automatic functions are set with the keys.
Control unit and weather station communicate wirelessly so that the control unit can be placed freely in the room. As there is no cabling required inside the building, the control systems are an ideal option for retrofitting.

Weather Station
cable connection
to shading or window
Drive
Window (for Arexa) or shading (for Solexa)
Radio-connection
Voltage supply 230 V
Control Unit
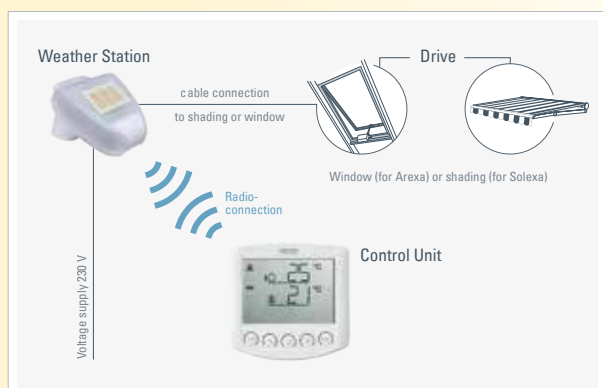
Shading Control Solexa® 230 V

- For an awning or a blind. Connection of 230 V motor at weather station, multiple drives with group control relay
- Complete system: control unit (with indoor temperature sensor) and weather station
- Automatic shading functions depending on brightness and indoor temperature
- Rain, wind and frost protection (may be switched off)
- Storage of a shading position for automatic mode, for blinds also opening angle of slats

Control Unit:
- Housing plastic white, aluminium coloured brush finished or pearl dark grey brush finished (partly painted)
- For wall mounting
- Approx. 103 x 98 x 28 (W x H x D, mm)

- Operating voltage: 2 x 1.5 V (batteries AA) or 1.2 V (storage batteries AA)

Weather Station:
- Temperature, precipitation, wind speed and brightness (1 solar sensor) recording
- Combined fixture for wall/pole mounting
- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

Accessories: (not included)
- Remote Control Remo 8 (p. 38)
- Group control relays, motor control devices (starting on p. 55)
- Mounting arms for weather station (p. 58)
- Connecting cable set (p. 58)

N° 10110
(white)

N° 10130
(aluminium)

N° 10131
(pearl dark grey)

Weather Station

Window Control Arexa® 230 V

- For a window. Connection of 230 V motor at weather station, multiple drives with group control relay
- Complete system: control unit (with indoor temperature sensor) and weather station
- Automatic ventilation functions depending on indoor and outdoor temperature
- Rain and wind protection (may be switched off)
- Storage of an opening position for automatic mode

Control Unit:
- Housing plastic white, aluminium coloured brush finished or pearl dark grey brush finished (partly painted)
- For wall mounting
- Approx. 103 x 98 x 28 (W x H x D, mm)

- Operating voltage: 2 x 1.5 V (batteries AA) or 1.2 V (storage batteries AA)

Weather Station:
- Temperature, precipitation, wind speed and brightness (1 solar sensor) recording
- Combined fixture for wall/pole mounting
- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

Accessories: (not included)
- Remote Control Remo 8 (p. 38)
- Group control relays, motor control devices (starting on p. 55)
- Mounting arms for weather station (p. 58)
- Connecting cable set (p. 58)

N° 10115
(white)

N° 10133
(aluminium)

N° 10134
(pearl dark grey)

Weather Station

Window Control Arexa® 24 V

- Central control for windows at motor control units, central output at the weather station
- Complete system: control unit (with indoor temperature sensor) and weather station
- Automatic ventilation functions depending on indoor and outdoor temperature
- Rain and wind protection (may be switched off)
- Storage of an opening position for automatic mode

Control Unit:
- Housing plastic white
- For wall mounting
- Approx. 103 x 98 x 28 (W x H x D, mm)
- Operating voltage: 2 x 1.5 V (batteries AA) or 1.2 V (storage batteries AA)

Weather Station:
- Temperature, precipitation, wind speed and brightness (1 solar sensor) recording
- Combined fixture for wall/pole mounting
- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: 13...30 V DC, 12...24 V AC

Accessories: (not included)
- Remote Control Remo 8 (p. 38)
- Group control relays, motor control devices (starting on p. 55)
- Mounting arms for weather station (p. 58)

Control Unit
N°10135 (white)

Weather Station

SOLEXA II RADIO CONTROL

The wireless control Solexa II is used for shading, window ventilation, brightness and heating control. Because of the modular structure different projects starting with the control of a single awning up to room climate control in a building can be realized. The basis is the battery-powered touch display with temperature sensor and time functions. By adding a radio motor control unit the shutter control is ready for use. Extended functionality is possible through combination with the Solexa II weather station, which reports brightness, temperature, wind and rain. Date, time and position coordinates for calculation of the position of the sun are received via GPS. Thus awnings, blinds and windows can be controlled automatically, too. A connection for a drive is already included in the weather station. Drives, light (switchable, dimmable) and heaters are integrated into the control system via various radio actuators.

For manual operation further Solexa II displays, remote controle Remo 8, push buttons Corlo P RF or an Elsner RF push button interface, can be used. Elsner radio sensors allow for more indoor data to be recorded for control.

NEW!

Solexa II Display, *(separately)* Nº 10144

Solexa II Set, *white/alu* Nº 10150

Radio Control Solexa II

Modular structure for maximum flexibility:
→ **see graphic on the right**
- Display and weather station are available separately or as a set
- Extension with Elsner radio actuators, sensors and operating devices

Simple, time saving installation via radio communication. Ideal solution for retrofitting, for listed historic buildings and so on.

Functions of the display alone (without weather station):
- Timer for shutter
- Timer for light
- Automatic heating depending on temperature and time

Functions of the display with weather station as a set:
- Automatic shading depending on brightness, indoor temperature, position of the sun; time control
- Timer for shutter
- Automatic window ventilation depending on indoor and outdoor temperature; time control
- Rain/wind and frost protection (can be switched off)
- Storage of a movement position for automatic mode, for blinds also slat angle
- Automatic light control depending on brightness and time
- Automatic heating depending on temperature and time

Display Solexa II

- Touch display
- Integrated room temperature sensor, timer
- In standalone mode (without weather station) for up to 16 Elsner RF radio actuators and 32 Elsner RF operating devices / sensors
- Can be combined with weather station Solexa II
- Housing for surface mounting, ca. 107 x 112 x 14 (W x H x D, mm)
- Integrated battery (3,8 V), charging via USB cable (5 V)

Weather Station Solexa II

- For use with Display Solexa II (up to 4 displays)
- Collection of temperature, precipitation, wind speed, light (1 sun sensor); GPS reception
- Connection for 230 V motor (integrated radio motor control unit)
- For up to 16 ELsner RF radio actuators

- Up to 32 Elsner RF operating devices/sensors
- Wi-Fi integration (for app usage) via optional interface SOL
- Approx. 96 x 77 x 118 (W x H x D, mm), IP 44, white/translucent, combined fixture for wall/pole
- Operating voltage 230 V AC

Solexa II Weather Station Nº 10148

Wi-Fi Interface SOL

- Communication Interface for Solexa II weather station for wireless networks

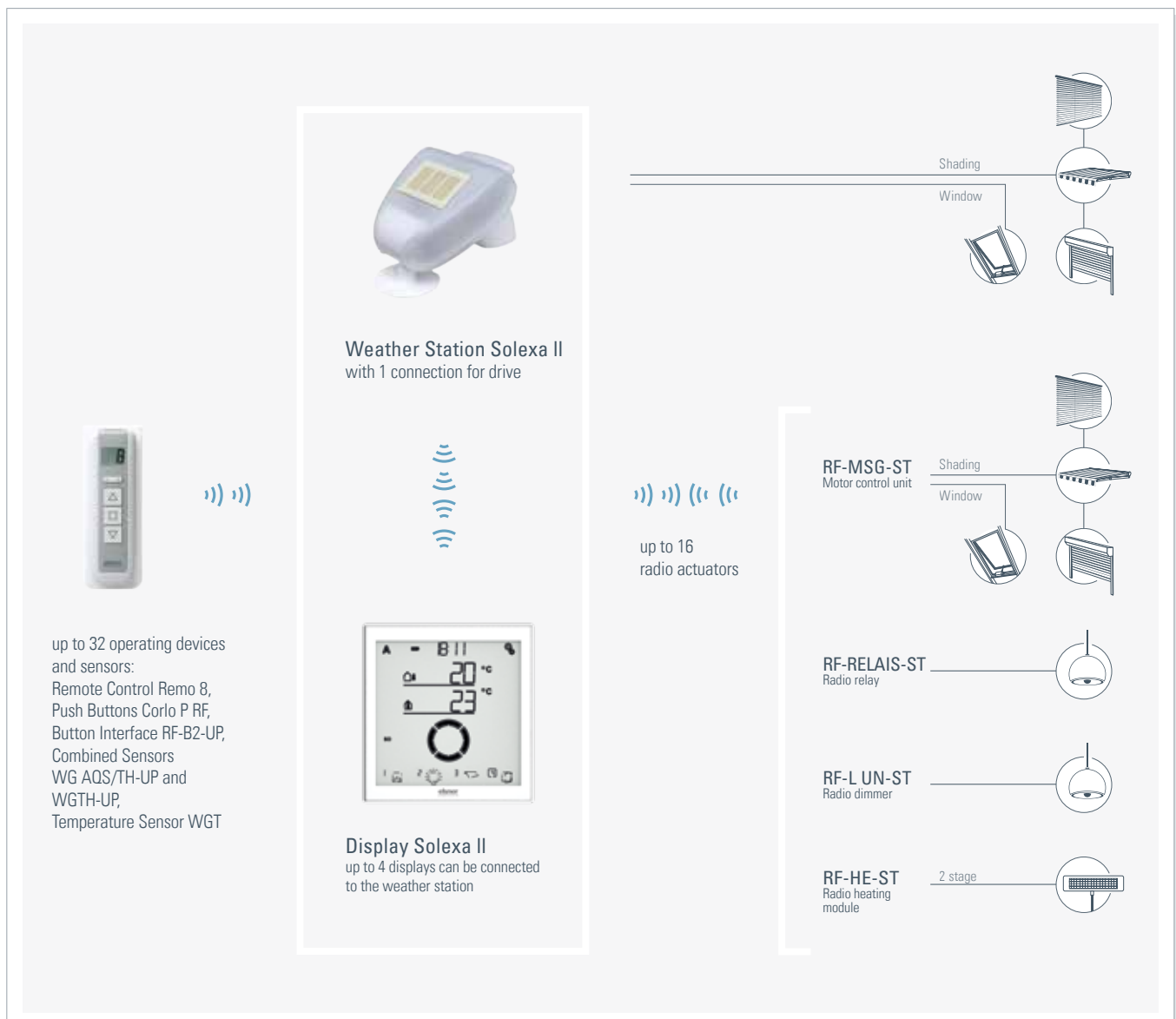- Allows control and display of measured values via smartphone app

Wi-Fi Interface SOL Nº 10154

OVERVIEW SOLEXA II WITH WEATHER STATION

Weather Station Solexa II
with 1 connection for drive

Shading
Window

up to 32 operating devices and sensors:
Remote Control Remo 8,
Push Buttons Corlo P RF,
Button Interface RF-B2-UP,
Combined Sensors WG AQS/TH-UP and WGTH-UP,
Temperature Sensor WGT

up to 16 radio actuators

Display Solexa II
up to 4 displays can be connected to the weather station

RF-MSG-ST
Motor control unit

Shading
Window

RF-RELAIS-ST
Radio relay

RF-L UN-ST
Radio dimmer

RF-HE-ST
Radio heating module

2 stage

EASY OPERATION OF SUNSCREEN AND LIGHTING FOR THE TERRACE, PATIO ETC.

On a hot summer day you don't want to miss some sort of sunscreen on your terrace, such as an awning or a sunblind. This applies to the open as well as the roofed terrace or patio.

The wireless module RF-MSG-ST turns any electric sunscreen drive into a radio controlled motor. The remote control Remo 8 extends or retracts your awning with the push of a button.

Cosy lighting in the evening
If you like to spend the evening hours outdoors you may wish for soft lighting on your terrace. The wireless module RF-L together with the remote control allows you to dim the lighting gradually. The dimmer is available for LED and halogen or energy saving lamps.

Comfortable warmth for long nights
A glass roof helps to avoid quick cooling of the terrace, so you can use it in the evenings and on cooler days. Additional warmth is supplied by a patio heater. Via the wireless module RF Relay-ST, the heater can be controlled with the remote control. Other devices, such as a pond pump are also compatible with the handheld transmitter Remo 8.

How it works. Plug-in, teach-in, ready!
The remote control Remo 8 communicates with up to 8 wireless devices. You can comfortably control your awning, lighting, heater and even more devices. Elsner Elektronik's wireless modules are easy and quick to install. An electrician simply plugs in the module between feeder and consumer load, teaches in the remote control and your motor or device is ready for wireless control.

*Remo 8
in white/grey*

*RF-MSG-ST
RF-L-ST
RF-Relay-ST*

Terrace Sets Components

Remote Control Remo 8
Radio hand-held transmitter with 8 channels for direct operation of shading, lighting ... (p. 38)

Radio Motor Control Unit RF-MSG-ST
Turns the drive of a shading or window into a radio controlled motor! Max. 4 A/230 V AC. (p. 36)

Wireless Dimmer RF-L-ST
Create atmosphere with the right lighting!

RF-L UN-ST for halogen lamps with dimmable power supply units
RF-L LED-ST for dimmable LED with dimmable power supply units (p. 36)

Radio Relay RF-Relais-ST
Operate your patio heater, pond pump, lighting wirelessly…
The RF-Relais-ST switches up to 16 A/230 V via a NO contact. (p. 36)

Terrace Set „Shading"

Nº 60570

- For one awning or sunblind
- 1x remote control Remo 8 in white
- 1x wireless motor control unit RF-MSG-ST

Terrace Set „Shading & Lighting"

Nº 60571 (Universal) | Nº 60572 (LED)

- For one awning or sunblind and one light
- 1x remote control Remo 8 in white
- 1x wireless motor control unit RF-MSG-ST
- 1x wireless dimmer RF-L UN-ST or RF-L LED-ST

Terrace Set „Shading, Lighting & Heating"

Nº 60573 (Universal) | Nº 60574 (LED)

- For one awning or sunblind and one light and one further consumer load
- 1x remote control Remo 8 in white
- 1x wireless motor control unit RF-MSG-ST
- 1x wireless dimmer RF-L UN-ST or RF-L LED-ST
- 1x wireless relay RF-Relay-ST

POWER — RF-MSG-ST — Remo 8

POWER — RF-MSG-ST / RF-L

POWER — RF-MSG-ST / RF-L / RF-Relais-ST
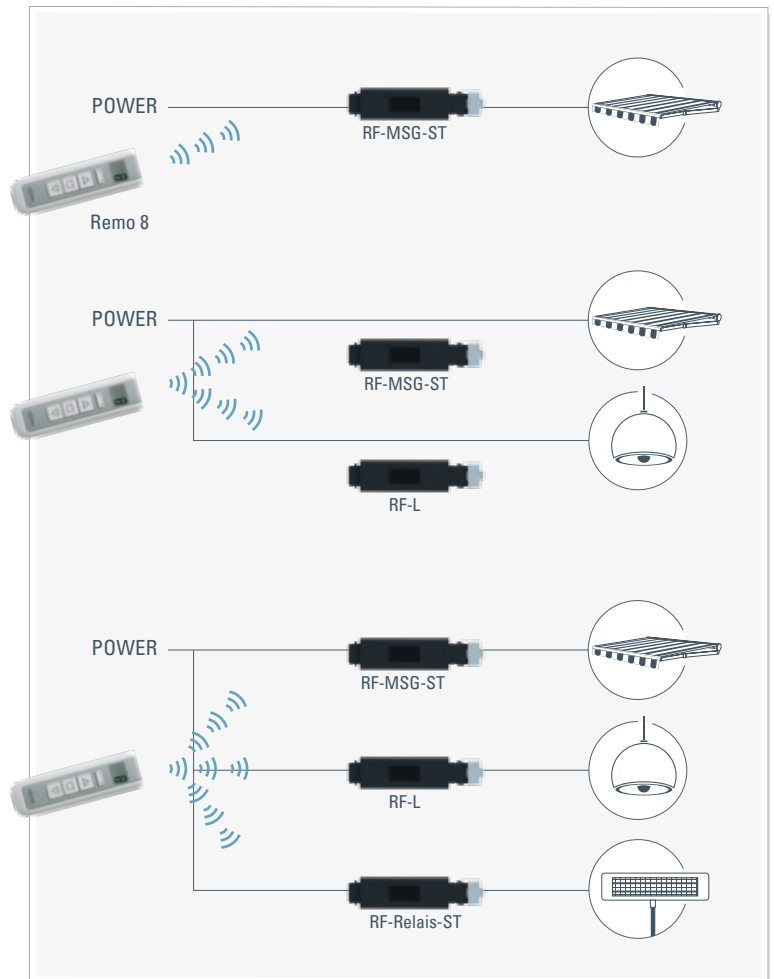
Patio Roof Control Lixa

- For an awning and a light
- Remote control and power unit in package
- Radio frequency 868.2 MHz

Power Unit Lixa:
- 1 connection for awning (230 V motor), several drives as a group via group control relay
- 1 connection for lights (25-300 W or LED, setting with jumper), integrated dimmer
- Automatic load detection
- Housing for surface mounting, grey
- Approx. 160 x 80 x 57 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

Remote Remo 8:
- Radio hand-held transmitter
- Button functions: up/down/stop, on/off, dimming

- 8 channels, thus expandable (awning and light of Lixa reserve 2 channels)
- With magnetic wall-mounting
- Housing plastic white/grey or alu/graphite (partly painted)
- Dimensions hand-held transmitter approx. 41 x 140 x 21, mounting approx. 54 x 150 x 11 (W x H x D, mm)
- Power supply: 3 V battery type CR2032

Additional possibilities:
- Operation of further devices with the hand-held transmitter Remo 8 (p. 38)
- Automatic control of the awning through combination of Lixa and Solexa (sun automatic, wind and rain protection)

Power unit

Nº 60150 (package, Remo 8 white)
*Nº 60151 (package, Remo 8 alu)*
Nº 60152 (only power unit)

*Remote control Remo 8*

VENTILATION CONTROL

The Ventilation Controls combine sensor technology and control engineering in a compact 55 mm housing. The setting of the nominal value is carried out on the device itself via its integrated buttons and display. The connected window or ventilation unit can be controlled directly through the buttons on the device. Analog outputs (0… 10 V) pass on measurements to other systems if needed. Inputs enable the automatic to be interrupted by external switch signals (from push buttons, timer, motion detector, rain alarm).
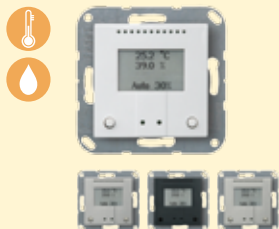
TH PF-U
N° 40100 (white)
N° 40101 (alu)
N° 40102 (anthracite)
N° 40103 (stainless steel)

TH PF
N° 40110 (white)
N° 40111 (alu)
N° 40112 (anthracite)
N° 40113 (stainless steel)
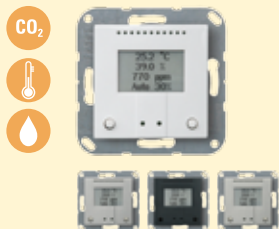
AQS/TH PF-U
N° 40105 (white)
N° 40106 (alu)
N° 40107 (anthracite)
N° 40108 (stainless steel)

AQS/TH PF
N° 40115 (white)
N° 40116 (alu)
N° 40117 (anthracite)
N° 40118 (stainless steel)

Indoor Sensor with Ventilation Control TH PF-U and AQS/TH PF-U

- For 1 window or ventilation unit (outputs potential free, 50 V AC/DC, 100 mA)
- Automatic function for ventilation (1- or 2-step control)
- Adjustable automatic reset time after manual operation (5...120 min.)
- For indoor use
- Display showing measurements and setting menus
- Push buttons for manual operation (open/close) and for automatic settings
- 2 inputs for central command (on permanent voltage priority over local operation and automatic, e. g. for rain alarm from rain sensors R24 V or RW-PF)
- For wall mounting in a socket
- Housing plastic white (glossy), aluminium, anthracite or stainless steel (painted, matt)
- Completion with frame of the switching series used in the building (not included in scope of delivery)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: 24 V DC

TH PF-U:
- Temperature sensor (-10…+50°C) Humidity sensor (0…95%rF)
- Voltage outputs (0…10 V) for temperature value and humidity value

TH PF:
- Temperature sensor (-10…+50°C) Humidity sensor (0…95%rF)

AQS/TH PF-U:
- Temperature sensor (-10…+50°C) Humidity sensor (0…95%rF) CO_2 sensor (0…2000 ppm)
- Voltage outputs (0…10 V) for temperature value, humidity value, CO_2 value

AQS/TH PF:
- Temperature sensor (-10…+50°C) Humidity sensor (0…95%rF) CO_2 sensor (0…2000 ppm)

Power Supply for Ventilation Controls NG AQS/TH PF

- For easy connection of 230 V window motors and ventilation units to ventilation controls AQS/TH PF(-U) und TH PF(-U)
- 2 switching outputs 230 V / 4 A

- 24 V DC power output for supply of the sensor
- Flush mounting in a socket
- Approx. 50 x 50 x 49 (W x H x D, mm)
- Operating voltage: 230 V AC

NG AQS/TH PF
N° 40120

WIRELESS VENTILATION MODULE

Wireless Ventilation Module RF-WL 0-10 V

- Wireless control for ventilation units WL400, WL800 and WL-Z
- A signal at the motion detector input starts ventilation (extraction with 40%) Additional ventilation levels can be triggered via 2 inputs (60% or 80% ventilation performance)

- Voltage input 0-10 V DC (1-10 V equal to ventilation performance proportional 10-100%)
- 24 V DC voltage output (max. 200 mA)
- Flush mounting in a socket
- Approx. 50 x 50 x 54 (W x H x D, mm)
- Operating voltage: 230 V AC

NEW!

N° 60539

EVALUATION UNIT

The PS8A evaluation unit is a comprehensive system for weather data recording, processing and forwarding. The necessary sensor system with the P03/3 weather station and an indoor temperature sensor are included in the delivery. The PS8A is fitted with display and keypad. This means that no additional equipment is needed for viewing or programming.

The PS8A evaluation unit has eight individually variable relay outputs. Threshold values are entered as required for sun from the east, south and west, for inside and outside temperatures and for wind speed. Rain alarm and twilight detection

can also be set as parameters. Time switching is possible through a week timer; the P03/3 weather station, which has a GPS receiver, delivers the exact time for this. If the evaluation unit gets incorrect data, it outputs an alarm message. All parameters can be linked by AND or OR.

The PS8A evaluation unit takes over, for example, automation of building ventilation and shading in which PLC, computer or relay controllers are used. The system is also suited as an intelligent sensor and operating unit for most bus systems on the market.

Evaluation Unit PS8A

- 8 relay outputs
- Comprehensive system comprising central unit, weather station and interior sensor

PS8A evaluation unit:
- Integrated keypad and display
- Installation on DIN rail (6 units), grey, approx. 105 x 90 x 60 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

Weather Station P03/3-GPS:
- Temperature sensor
- 3 brightness sensors (east, south, west)

- Wind speed sensor
- Precipitation sensor with 1.2 watt heating
- GPS receiver
- Combi mount for wall or pole mounting; mounting arms available as an option
- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: 24 V DC

Inside temperature sensor T-KTY82:
- Length of sensor shell approx. 45 mm, Ø approx. 6 mm, cable length approx. 187 mm

Auswerteeinheit PS8A mit Wetterstation P03/3 und Temperatursensor T-KTY82
N° 701

In addition to shading, correct and adequate ventilation is imperative, so that a conservatory or a building with glass facade does not become a greenhouse. At its simplest, ventilation takes place via windows and roof vents. But this "natural ventilation" is not always possible. Particularly if the building height is low, the air circulation is insufficient. Open windows also encourage intruders. In these cases, motorised fans provide a pleasant climate. Mounted in the roof area, air is extracted (exhaust) or recirculated (recirculating air). Vents in the floor let fresh air flow in again.

Ventilation in summer

Good ventilation is important in summer in order to bring fresh, cool air into the room. An air feed in the floor area provides cooling. Windows or air supply units are installed in the skirting. Because air in the glass building warms up and rises, heat can easily accumulate in the ridge area. This can escape through the open rooflight or is exhausted in a controlled manner by ventilation units.

Ventilation in winter

In winter, the automatic control is predominantly in charge of using the sun's energy to heat the glass building. It will only extend the awning or blind once the desired indoor temperature is reached. When temperatures are low outside, windows and vents remain closed to avoid energy losses caused by a cold air supply. Ventilation units with a recirculation function can also be used for heat recovery. The warm air which collects in the roof area is distributed throughout the conservatory by the recirculation.

Ventilation and humidity

The air humidity in living rooms is a crucial factor in whether the climate is perceived as comfortable. Correct ventilation brings the air into motion and routes moisture to the outside. An obvious accompaniment to high humidity in a room is condensation on the window panes. This is particularly common if there are large temperature differences between inside and outside. Air movement helps to disperse this, as it occurs through ventilation, heating or recirculation. Elsner Elektronik ventilation units can counter condensation forming even before it has settled as moisture. A special calculation process in Elsner controls starts the recirculation function even before the window panes are affected.
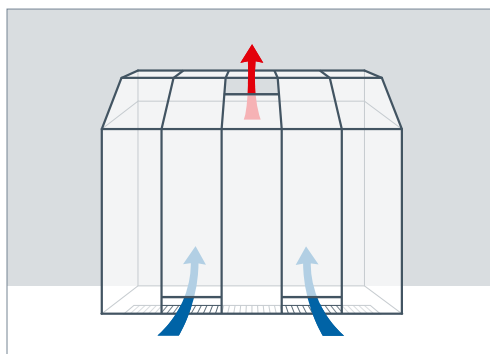
VENTILATION FOR CONSERVATORIES AND GLASS FACADES
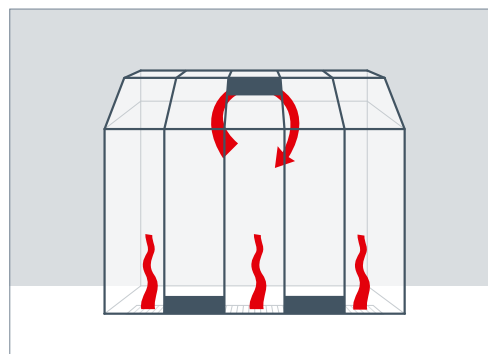
Ventilation in summer: Open vents in the skirting admit fresh, cool air. Heated air is exhausted in the ridge area.

Ventilation in winter: Vents remain closed and the heating is on. In recirculation mode, the ventilation units distribute the warm air from the ridge area.

The air vent closes the air supply unit (top). Only if the vent is open fresh air can flow in (bottom).
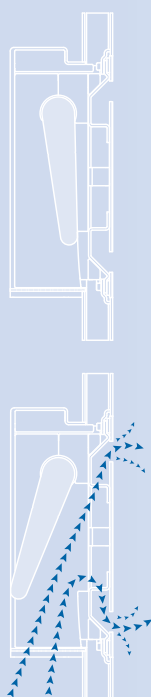
AIR SUPPLY UNIT

The WL-Z air supply unit is installed in the skirting and provides fresh air. As soon as air escapes through a roof light or is exhausted through an extraction device, cool air from outside flows in independently through the opened vent without any help of a fan.

Because of the diffusor of WL-Z the air is distributed evenly and without draught in the room. If the optional protective grid has been installed, insects and pollen remain outside.

The **fresh air supply** is regulated by the inside temperature and the air humidity. If the values are higher than desired, the air supply is opened. The outside temperature is also recorded at the WL-Z air supply unit to optimize ventilation in summer and in winter. If summer mode is activated, the vent closes as soon as the temperature of the air flowing in is higher than the room temperature. Winter mode keeps the vent closed on cold days to prevent the room cooling down and plants that are sensitive to cold being damaged.

The WL-Z is flush on the inside and can be therefore used in the immediate vicinity of sliding doors. Due to the thermal decoupling of the exterior and interior part an excellent insulation value of 0.9 W/m² K is achieved. The device is powder-coated on both sides. The installation panel is extremely resistant to pressure; it is mounted like a glass pane. Because the WL-Z is processed free from any silicone, it can be installed together with self-cleaning panes.

The WL-Z ventilation device is controlled via radio. During installation, merely the mains supply has to be connected. As soon as the wireless connection has been set, the WL-Z works wireless and without any additional device together with the WS1 and WS1000 Color/Style controls. The air supply unit can also be operated directly with the Remo 8 wireless remote control or Solar Push Button Corlo P RF (without any further control device, see p. 38).

Inside view

Exterior view

Air Supply Unit WL-Z

- Air feed on a reflow basis, volume of air dependent on pressure difference
- Air flow cross-section approx. 19.200 mm² (192 cm²)
- Power input max. 5 W
- Integrated temperature sensor for summer and winter mode
- U-value approx. 0,9 W/m²K
- Panel compression strength approx. 350 kPa
- Radio frequency 868,2 MHz
- Standard colours: similar to RAL 9016 traffic white, RAL 9006 aluminium white, RAL 9007 aluminium grey
- Custom colours available as per RAL (extra charges) (extra charges apply), coating with custom colour powder possible

- Fan approx. 641 x 207 (W x D, mm), installation height approx. outside 60 mm, inside flush-mounted
- Standard panel approx. 1050 x 30 x 270 mm (W x H x D), panel thickness 24-60 mm, can be trimmed on 3 sides
- Pre-cut of panel and custom panel dimensions available, extra charges apply
- Operating voltage: 230 V, 50 Hz

Standard panel WL-Z

N° 60502	WL-Z, RAL 9016
N° 60503	WL-Z, RAL 9006
N° 60504	WL-Z, RAL 9007
N° 60505	WL-Z, custom, 1-colour
N° 60506	WL-Z, custom, 2-colour
(N° 60513-N° 60517	WL-Z pre-cut)

Inside view WL800
white, RAL 9016 silk gloss

reddot award 2014 winner

German Design Award NOMINEE 2015

iF DESIGN AWARD 2015

GERMAN DESIGN AWARD NOMINEE 2016

DESIGN PLUS
powered by: ISH

VENTILATION UNITS FOR AIR EXTRACTION AND RECIRCULATION

Motorised ventilation equipment ensures a comfortable climate in the conservatory if airing through windows is inadequate due to the building's layout, or is unwanted due to security risks. The ventilation units extract (exhaust) or recirculate (recirculation) air. The fans are particularly quiet when running.

The ventilation units communicate via radio with the WS1 and WS1000 Color/Style controls. Alternatively, the equipment can be connected directly with the Remo 8 wireless remote control or the solar radio button Corlo P RF (p. 38). The ventilation unit can be automatically activated with a motion sensor via the RF-WL module (p.45). Recirculation mode is used for better heat recovery in your room and thus saves heat ener-

gy. Well timed air recirculation can also reduce condensation effectively. The controls detect critical temperature and dew point conditions using a special calculation method. This starts recirculation mode even before moisture settles. Due to their low installation height, the fans fit under an exterior sun screen, such as an awning. Owing to their completely silicone-free processing, the installation alongside self-cleaning panes is possible.

When the fan is shut off, the closure flap is closed with high contact pressure. Together with the self-limiting flap motor, this guarantees a tight closure of the ventilation aperture.
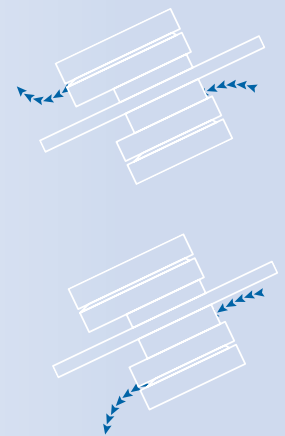
Ventilation unit function in exhaust mode (top) and in recirculation mode (bottom)

Ventilation Units WL

- Exhaust and recirculation modes (heat recovery, condensation reduction)
- Integrated temperature sensor (for recirculation)
- Panel compression strength approx. 350 kPa
- U-value approx. 0.9 W/m2K
- Available for roof sloping from 0° to 90°
- Radio frequency 868.2 MHz
- Standard colours: similar to RAL 9016 traffic white, RAL 9006 aluminium white, RAL 9007 aluminium grey
- Custom colours available as per RAL (extra charges apply), coating with custom colour powder possible
- Standard panel approx. 1050 x 30 x 750 (W x H x D), can be trimmed on 3 sides
- Pre-cut of panel, custom panel dimensions and hights available, extra charges apply

- Fan dimensions: Depth approx. outside 304 mm, inside 254 mm. Installation hight approx. outside 150 mm, inside 165mm (when panel is 30 mm high, other hights result in a corresponding change of inner installation hight)
- Operating voltage: 230 V, 50 Hz

Ventilation Unit WL400
- Air volume extraction max. approx. 277 m3/h (net)
- Infinite variation, power consumption approx. 4 W (minimum speed) up to 62 W
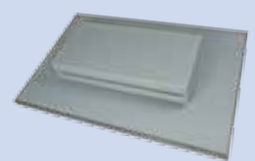- Fan width: approx. 379 mm

Ventilation Unit WL800
- Air volume extraction max. approx. 555 m3/h (net)
- Infinite variation, power consumption approx. 8 W (minimum speed) up to 124 W
- Fan width: approx. 651 mm

Exterior view WL800, grey RAL 9007, fine structure

Inside view WL400, white RAL 9016, silk gloss

Standard panel WL

N° 60461	WL800, RAL 9016
N° 60462	WL800, RAL 9006
N° 60463	WL800, RAL 9007
N° 60465	WL800, custom, 1-colour
N° 60466	WL800, custom, 2-colour
(N° 60471-N° 60476	WL800 pre-cut)

N° 60481	WL400, RAL 9016
N° 60482	WL400, RAL 9006
N° 60483	WL400, RAL 9007
N° 60485	WL400, custom, 1-colour
N° 60486	WL400, custom, 2-colour
(N° 60491-N° 60496	WL400 pre-cut)

BUILDING AUTOMATION

CONVENTIONAL SENSORS

T-KTY82 N° 305

T-NTC N° 30516
T-NTC-ST N° 30513

Temperature Sensors T-KTY82, T-NTC, T-NTC-ST

T-KTY82:
- For indoor and outdoor applications
- Application example: Actuators KNX S-B4T-UP
- Length of sensor sleeve approx. 45 mm, Ø approx. 6 mm, cable length approx. 187 mm

T-NTC, T-NTC-ST:
- For indoor and outdoor applications
- Measurement range -30°C to 100°C
- T-NTC e.g. for Corlo Touch
- T-NTC-ST with plug for KNX B8-TH
- Length of sensor sleeve approx. 32 mm, Ø approx. 6 mm, cable length approx. 300 cm

T-UP basic N° 30520
TH-UP basic N° 30525

Temperature and Humidity Sensors T-UP basic and TH-UP basic

- Sensors for Interface KNX B8-TH
- For Wall mounting in a socket (55 mm switch series)

T-UP basic:
- Temperature sensor

TH-UP basic:
- Temperature/humidity sensor

N° 30159

Rain/Wind Sensor RW-PF

- Wind speed sensor
- Precipitation sensor with 1.2 watt heating
- Potential-free changeover contacts for wind and rain alarm
- Setting of the wind threshold value via DIP switches inside the device

- LEDs show wind/rain alarm
- Approx. 96 x 77 x 118 (W x H x D, mm)
- Housing for surface mounting, IP 44, white/translucent
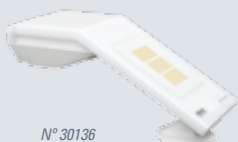- Operating voltage: 12...40 V DC (12...28 V AC)

N° 30158

Rain Sensor R 24 V

- Precipitation sensor with 1.2 watt heating
- 24 V DC output for rain alarm
- Hold time 10-300 seconds, potentiometervariable
- Approx. 96 x 77 x 118 (W x H x D, mm)

- Housing for surface mounting, IP 44, white/translucent
- Operating voltage: 24 V DC

NEW!

N° 30136

P04i-GPS Weather Station

- For WS1 and (KNX) WS1000 Color/Style
- Temperature, precipitation, wind speed and brightness recording
- Sun position calculation by the control system
- GPS receiver (time, position)
- Combi mount for wall/pole mounting

- Housing for surface mounting, IP 44, white/translucent
- Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 24 V DC

P04i-W Wind Sensor

- Wind Sensor for WS1 and WS1000 Color/Style in conjunction with P03i/P04i Data Collector
- Housing for surface mounting, IP 44, white/translucent

- Approx. 62 x 71 x 145 (W x H x D, mm)
- Operating voltage: 24 V DC

NEW!

N° 30137

P03i-GPS Weather Station

- For WS1 and (KNX) WS1000 Color/Style
- Temperature, precipitation, wind speed and brightness recording
- Sun position calculation by the control system
- GPS receiver (time, position)

- Combi mount for wall/pole mounting
- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)
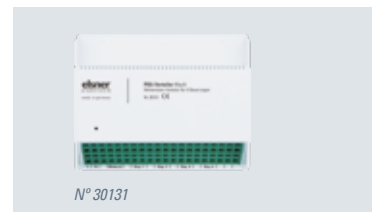- Operating voltage: 24 V DC

N° 30114

P03i-W Wind Sensor

- Wind sensor for WS1 and WS1000 in conjunction with P03i/P04i Data Collector
- Approx. 96 x 77 x 118 (W x H x D, mm)

- Housing for surface mounting, IP 44, white/translucent
- Operating voltage: 24 V DC

N° 30135

P03i/P04i Distributor

- Weather data distributor with 1 data input (for P03i/P04i-GPS) and 4 data outputs (for WS1 and WS1000)

- Modular device 6 width units, white, approx. 107 x 88 x 60 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 30131

P03i/P04i Data Collector

- Weather data collector with 5 data inputs (1 for P03i/P04i-GPS, 4 for P03i/ P04i-W) and 1 data output (for WS1 and WS1000)

- Modular device 6 width units, white, approx. 107 x 88 x 60 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 30132

MONITORING OF TANKS & DISTANCE MEASUREMENT (MODBUS)

An ultrasonic probe is used for measuring the capacity of tanks and for distances. The fill level/distance can be directly read from the display. Settings like the measurement cycle or the tank geometry are accomplished by means of the key pad. Different interfaces/outputs allow for the transfer of the data of the tank sensor to other devices.
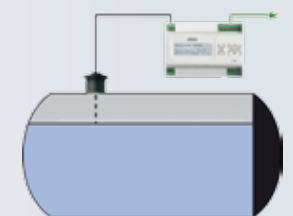
Tank Sensor SO250-UI

- Measurement of filling height or distance (12…250 cm)
- Modbus interface for data output
- 2 additional output relays
- Voltage interface 0…10 V
- Current interface 0…20 mA
- Evaluation unit with display and keypad

- Modular device 7 width units, white, approx. 123 x 89 x 61 (W x H x D, mm)
- Ultrasonic measuring sensor, black, Ø approx. 60 mm, height approx. 45 mm, thread 1½ inches
- Suitable for water and heaty oil
- 10 m connection cable
- Operating voltage: 230 V AC

N° 70152

RS485 WEATHER STATIONS AND MODBUS WEATHER STATIONS

The weather stations provide the current meteorological data as RS485 or as Modbus protocol. The sensors, the evaluation electronics and the bus coupler are mounted in a compact housing with an integrated combined fixture for wall/pole mounting. In additional there are mounting arms available for flexible mounting. The **brightness sensor** not only recognizes sunlight, but also twilight. For this, filters simulate the spectral sensitivity of the human eye. The electronic **wind sensor** works noiselessly and reliably, even during hail, snow and sub-zero temperatures. Even turbulent air and anabatic winds in the vicinity of the weather station are recorded. The measuring surface of the **precipitation sensor** is heated, so that humidity dries immediately. On the one hand, this prevents false reports caused by fog or dew. On the other hand, the sensor recognizes quickly when it has stopped to rain or snow. The **temperature sensor** transfers the outdoor temperature exactly and reliably. The **GPS receiver** delivers the international time signal (UTC) and the position.

P03/3-RS485-GPS
N° 30145

P03/3-RS485-CET
N° 30151

P03/3-RS485 basic
N° 30140

Weather Stations P03/3-RS485-GPS, P03/3-RS485-CET, P03/3-RS485 basic

- RS485 data output
- Temperature sensor (-30…+50°C)
- Wind speed sensor
- 3 brightness sensors
  (east, south, west, 0…150 000 lx)
- Precipitation sensor with 1.2 watt heating
- Housing for surface mounting, IP 44, white/translucent
- Approx. 96 x 77 x 118 (W x H x D, mm)

P03/3-RS485-GPS:
- GPS receiver
- Calculation of the position of the sun
  (azimuth/elevation)

- Output of UTC
- Operating voltage: 24 V DC

P03/3-RS485-CET:
- GPS receiver
- Calculation of the position of the sun
  (azimuth/elevation)
- Output of the central european time CET, automatic summer/winter time switchover according to the specifications for central europe
- Operating voltage: 24 V DC

P03/3-RS485 basic:
- No time function
- Operating voltage: 12...40 V DC (12...28 V AC)

NEW!

P04/3-RS485-GPS
N° 30152

P04/3-RS485-CET
N° 30153

P04/3-RS485 basic
N° 30154

Weather Stations P04/3-RS485-GPS, P04/3-RS485-CET, P04/3-RS485 basic

- RS485 data output
- Temperature sensor (-30…+50°C)
- 3 brightness sensors
  (east, south, west, 0…150 000 lx)
- Wind speed sensor
- Heated precipitation sensor
- Housing for surface mounting, IP 44, white/translucent
- Approx. 62 x 71 x 145 (W x H x D, mm)

P04/3-RS485-GPS:
- GPS receiver
- Calculation of the position of the sun (azimuth/elevation)

- Output of UTC
- Operating voltage: 24 V DC

P04/3-RS485-CET:
- GPS receiver
- Output of the central european time CET, automatic summer/winter time switchover according to the specifications for central europe
- Operating voltage: 24 V DC

P04/3-RS485 basic:
- No time function
- Operating voltage: 12...40 V DC (12...28 V AC)

P03/3-Modbus
N° 30146

P03/3-Modbus-GPS
N° 30147

Weather Stations P03/3-Modbus

- Modbus data output (Modbus RTU)
- Temperature sensor (-30…+50°C)
- 3 brightness sensors
  (east, south, west, 0…150 000 lx)
- Wind speed sensor
- Precipitation sensor with 1.2 watt heating
- Housing for surface mounting, IP 44, white/translucent

- Approx. 96 x 77 x 118 (W x H x D, mm)
- Operating voltage: 12...40 V DC (12...28 V AC)

P03/3-Modbus:
- No time signal

P03/3-Modbus-GPS:
- GPS receiver
- Calculation of the position of the sun (azimuth/elevation)

MOTOR CONTROL UNITS

Motor control units take over numerous tasks in the field of building automation: They transmit commands of control systems to motors and allow for the crea-

tion of groups. Devices with inputs for push buttons facilitate local manual operation.
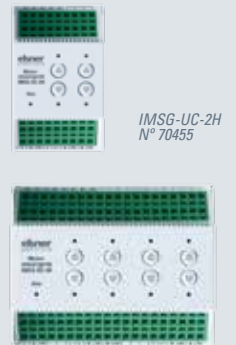
Motor Control Units IMSG-UC

- With keypad (manual operation) and status LEDs
- Central and extension inputs with variable voltage (6…80 V DC, 6…240 V AC)
- Setting the central control to "Deadman" or "Autohold"
- Local manual operation with unlocked buttons (setting to Standard or Comfort mode) Storing one movement position per drive
- Connect through clamps
- Potential-free relays
- Auxiliary voltage: 230 V AC

IMSG-UC-2H:
- For 2 drives (230 V)
- Connection for 2 up/down push buttons
- Modular device 3 width units, white, approx. 53 x 88 x 60 (W x H x D, mm)

IMSG-UC-4H:
- For 4 drives (230 V)
- Connection for 4 up/down push buttons
- Modular device 6 width units, white, approx. 107 x 88 x 60 (W x H x D, mm)

IMSG-UC-2H
N° 70455

IMSG-UC-4H N° 70456

Motor Control Unit MSG1-UP

- For 1 drive (230 V AC / 4 A, up/down)
- For central and manual control of shading or window
- Low wear zero voltage switch
- Direction change pause 1 second
- Central input 8 to 8...28 V, deadman or autohold modes

- Manual input for non-locked keys (8 to 28V), integrated automatic key timer (step mode/autohold)
- Integrated device for installation in junction box
- Approx. 38 x 47 x 29 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

N° 70451

Motor Control Unit MSG1-UP 24V PS

- For a 24 V DC polarity changer motor, integrated power supply unit (230 V AC to 24 V DC, 0.5 A)
- Non-wearing, noiseless electronical output
- For central and manual control of shading or window

- Central inputs up/stop and down/stop
- Manual inputs up/stop and down/stop
- Flush mounting in a socket
- Approx. 50 x 50 x 54 (W x H x D, mm)
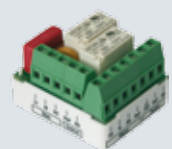- Operating voltage: 230 V AC

NEW!

N° 70452

Intelligent Motor Control Unit IMSG 230

- For 1 drive, 230 V AC/4 A, up/down clamps
- For central and manual control of shading or window
- Central input 230 V AC
- Local manual operation with unlocked buttons (230 V AC)
- Storing of a movement position

- Integrated automated time system for buttons: inching function (for exact positioning) and longer keypress (automatic movement to the end position)
- Integrated device for installation in junction box
- Approx. 38 x 47 x 29 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

N° 70446

POWER SUPPLY UNITS

WGDC-2S N° 2014
WGDC-2P5 N° 2015

Power Supply Units WGDC

- Control input „up/down": 230 V AC, 50 Hz, short-circuit proof, stabilised
- Housing for surface mounting, IP 54, grey
- Approx. 160 x 80 x 57 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

WGDC-2S:
- 2 outputs, a total of max. 2 A
- Can be jumpered to 12 V DC, 24 V DC or "Sort Start"

- "Sort Start" function for control of the slat angle of blinds. Switchover from 12 V to 24 V after approx. 1s
- Integrated changeover relay stops the drive faster

WGDC-2P5:
- 1 output 24 V DC, 2 A
- For motors with a five-pole connection (e. g. window drive mechanisms that are integrated in the front)

PS180
N° 20200
PS400
N° 20201
PS1000
N° 20202

PS5000
N° 20203

24 V DC Power Supply Units PS180, PS400, PS1000 and PS5000

- For devices with 24 V AC supply voltage
- Input voltage: 230 V AC, 50 Hz
- Output voltage: 24 V DC
- Modular device

PS180:
- Output max. 180 mA / 4,5 W
- Approx. 53 x 90 x 50 (W x H x D, mm), 3 width units

PS400:
- Output max. 400 mA / 10 W
Approx. 108 x 95 x 69 (W x H x D, mm), 6 width units

- Approx. 53 x 90 x 50 (W x H x D, mm), 3 width units

PS1000:
- Output max. 1000 mA / 24 W
- Approx. 53 x 90 x 50 (W x H x D, mm), 3 width units

PS5000:
- Input voltage 230 V AC or 275-350 V DC
- Output adjustable 24-28 V DC, max. 5 A / 120 W

RELAYS

N° 2016

AC/DC-Relay RACDC-H

- For 24 V polarity changer motors, max. 4 A
- Control input (up/down): 230 V AC, 50 Hz
- Operating voltage: 24 V DC

- Additional 24 V DC voltage output
- Modular device 3 width units, approx. 53 x 90 x 50 (W x H x D, mm)
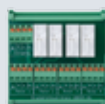

WGGS-2
N° 2032

WGGS-2-AP N° 2035
WGGS-2-APK N° 2036

WGGS-4
N° 203

WGGS-2-H
N° 2037

WGGS-4-H
N° 2034

Group Control Relays WGGS

- Decoupling relays for operation of drives without integrated group control relay in a group
- Max. 500 W per output
- Control input (up/down): 230 V AC, 50 Hz
- Operating voltage: 230 V AC, 50 Hz

WGGS-2:
- 2 outputs 230 V AC (up/down clamps)
- Built-in type for assembly in junction box
- Approx. 38 x 47 x 29 (W x H x D, mm)

WGGS-2-AP:
- 2 outputs 230 V AC (up/down clamps)
- Housing for surface mounting, IP 55, grey
- Approx. 89 x 53 x 89 (B x H x , without fastener)

WGGS-2-APK:
- Control input with STAS3 plug

- 2 outputs 230 V AC (STAK3 connector)
- Housing for surface mounting, IP 55, grey
- Approx. 89 x 53 x 89 (B x H x T, without fastener)

WGGS-2-H:
- 2 outputs 230 V AC (up/down clamps)
- Modular device 3 width units, Approx. 38 x 47 x 29 (W x H x D, mm)

WGGS-4:
- 4 outputs 230 V AC (up/down clamps)
- Housing for surface mounting, IP 54, grey
- Approx. 160 x 80 x 57 (W x H x D, mm)

WGGS-4-H:
- 4 outputs 230 V AC (up/down clamps)
- Modular device 5 width units, dimensions approx. 88 x 90 x 50 (W x H x D, mm)

Decoupling Relay WG-N-GS 4

- Decoupling relay for operation of drives without integrated group control relay in a group
- 4 × drive 230 V AC (Up/Down/N/PE)
- Total load max. 1.5 kW, load of one output max. 600 W
- Control input (up/down): 230 V AC, 50 Hz
- Operating voltage: 230 V AC, 50 Hz
- Housing for surface mounting, IP 54, grey
- Approx. 160 x 80 x 57 (W x H x D, mm)

N° 202

Potential-free relays WG-PF and RP-H

- For coupling/potential isolation of various control systems
- Power disconnection has to be carried out by the control device

WG-PF:
- Output with one NO-contact for up and one for down, potential-free, max. 230 V AC, 8 A
- Control input 230 V AC, up/down/N/PE, 50 Hz
- Mounting in socket
- Approx. 38 x 47 x 29 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

RP-H 230 V:
- Output with a change-over contact for up and for down, max. 230 V AC, 8 A
- Control input 230 V AC, up/down/N/PE, 50 Hz

- Modular device 3 width units, approx. 53 x 90 x 50 (W x H x D, mm)
- Operating voltage: 230 V AC, 50 Hz

RP-H 24 V:
- Output with a change-over contact for up and for down, potential-free, max. 230 V AC, je 1 A
- Control input 24 V DC, up/down/Com
- Modular device 3 width units, approx. 53 x 90 x 50 (W x H x D, mm)

RP-H PW:
- Output up/down/N/PE, potential-free, max. 230 V AC, 1 A
- Control input 24 V DC with polarity change
- Modular device 3 width units, approx. 53 x 90 x 50 (W x H x D, mm)
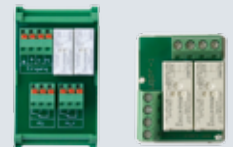
RP-H 24 V
N° 2021

RP-H PW
N° 2022

ADDITIONAL ACCESSORIES

Corlo Push Buttons

- Glass white or black, edge matt / glossy chromed or white / black coated
- Approx. 80 × 71 × 12.5 (W × H × D, mm)

Corlo Push Buttons M-T:
- Mechanical push button
- Mounting with Frame *Corlo* in socket (see below)
- Integrated temperature sensor T-NTC
- Available as single push button Corlo M1-T and as double push button Corlo M2-T

Corlo Solar Wireless Push Button P RF:
- Wireless Push Button for drives/devices on controls WS1, WS1000
- For direct operation of ventilation units, relays, motor control units

- Energy supply through integrated solar panels. Additional emergency power supply through 3 V batterie (Typ CR2032)
- Mounting with Frame Corlo in socket or Frame *Corlo Plane* without socket (see p. 36)
- Available as single push button Corlo P1 RF and as double push button Corlo P2 RF

Corlo Push Buttons M1-T		**Corlo Push Buttons M2-T**	
White / chrome glossy	N° 70282	White / chrome glossy	N° 70286
Black / chrome glossy	N° 70283	Black / chrome glossy	N° 70287
White / chrome matt	N° 70284	White / chrome matt	N° 70288
Black / chrome matt	N° 70285	Black / chrome matt	N° 70289
White / white matt	N° 70338	White / white matt	N° 70340
Black / black matt	N° 70339	Black / black matt	N° 70341

Corlo Push Buttons P1 RF		**Corlo Push Buttons P2 RF**	
White / chrome glossy	N° 70290	White / chrome glossy	N° 70294
Black / chrome glossy	N° 70291	Black / chrome glossy	N° 70295
White / chrome matt	N° 70292	White / chrome matt	N° 70296
Black / chrome matt	N° 70293	Black / chrome matt	N° 70297
White / white matt	N° 70342	White / white matt	N° 70344
Black / black matt	N° 70343	Black / black matt	N° 70345

Corlo Push Buttons M-T

Corlo Push Buttons P RF

Radio Push Button Interface RF-B2-UP

N° 60540

- Radio Interface for 2 normal double switches
- For control of the drives and devices installed at building control systems and for direct manual control of ventilation units, relays and motor control units (see Remo 8, p. 38)

- Radio frequency 868.2 MHz
- Power supply: 3 V battery type CR2032
- Approx. 38 x 47 x 29 (W x H x D, mm)
- Connection lead 300 mm, can be extended up to 10 m

Mounting Arms for Weather Stations

Hinge Arm large
N° 30109 (white)
N° 30111 (alu blank)

Mounting Arm Fix
N° 30127 (white)
N° 30128 (alu blank)

- For flexible mounting of Elsner Elektronik weather stations and sensors

Mounting Arms Flex with ball joints:
- For P03/Solexa/Suntracer, P04/Suntracer sl and Vari models
- For wall mounting
- RAL 9003 powder-coated
- High quality, fixable ball joints
- Flex S: 1 ball joint, total length approx. 64 mm
- Flex S+: 2 ball joints, total length approx. 116 mm
- Flex L: 1 ball joint, total length approx. 215 mm

Mounting Arm L:
- For P03/Solexa/Suntracer, P04/Suntracer sl and Vari models
- For wall mounting

- RAL 9003 powder-coated
- Total length approx. 163 mm (no joints)

Mounting Arm Fix:
- For P03/Solexa/Suntracer, P04/Suntracer sl and Vari models
- Available powder-coated RAL 9003 or aluminium blank
- Total length approx. 425 mm

Hinge Arm large:
- For P03/Solexa/Suntracer models
- For wall, pole or beam mounting
- Available powder-coated RAL 9016 Traffic White or aluminium blank
- 1 hinge, total length approx. 420 mm

Mounting Arm Flex S
N° 30119

Mounting Arm Flex S+
N° 30120

Mounting Arm L
N° 30112

Mounting Arm Flex L
N° 30115

Mounting Arm Flex L+
N° 30116

Charging Set for Solexa II Display

Charging Set for Solexa II Display N° 10155

- USB Charger

Connection cable set for 230 V Solexa or Arexa

N° 10113 (loose)
N° 10114 (mounted)

- Simplified control connections via a mains socket
- Mains lead, length approx. 6 m

- Motor connection cable with STAK3 coupling, length approx. 6 m
- Available loose or mounted

GPS-DCF Converter UTC ±

GPS-DCF-Converter UTC ± N° 30150

- Receives the international time signal UTC via GPS and converts the information to a DCF77 protocol (DCF output +24 V / - / out)
- Connection to a DCF77 signal input (as an alternative to a DCF77 antenna)
- Summer/winter time switchover has to be carried out externally

- Housing for surface mounting, IP 54, grey
- Approx. 80 x 80 x 55 (W x H x D, mm)
- Auxiliary voltage: 12-24 VDC
- Output for local time. UTC offset is set with DIP switches in the device (output of local time)

elsner
elektronik

Building and Conservatory Automation

Elsner Elektronik has been standing for intelligent solutions in the sector of **automatic conservatory control systems and building automation** since 1990. All products of Elsner are developed and manufactured at the company headquarters in Ostelsheim. Highly qualified staff and advanced technology guarantee for a continuously high quality standard. Elsner Elektronik offers complete systems for the control of the ambient climate in buildings as well as individual components for different data interfaces (KNX, RS485, Modbus). Central operating devices, weather and indoor sensors, actuators or system devices – All products combine flexible technical solutions, comfortable operation and a forward-looking design.

Test laboratory for KNX application software

Elsner Elektronik is licensed as a **KNX test laboratory** and carries out the interworking and functional tests stipulated by the KNX Association. Regular audits to DIN EN ISO/IEC 17025 ensure compliance with the KNX standard. The test laboratory ensures that equipment from a range of manufacturers is successfully prepared for KNX certification. Elsner Elektronik supplies individual service packages for this purpose. Cost-effective entry-level offers include the manufacturer's co-operation, while the comprehensive package also includes registration with the KNX Association. Individual training courses introduce participants to the generation of EITT test sequences.

Qualitätsmanagement

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