



genetic high efficiency

# KNX WEATHER STATION COMPACT WEATHER STATION COMFORT PLUS



metering

## KNX Weather station Compact



Energy efficiency and increased convenience in the *Smart Home* – to meet this demand, the KNX Weather station Compact provides important measuring values and information. The device is simply mounted at a facade and adjusted facing the cardinal points. With commissioning, logic, locking and limit value functions are available. Living and working in a dazzle-free environment in a building, combined with a reduction of heating and cooling costs by effective shading, enhances convenience and reduces energy consumption – also during your absence. Through measuring values for wind speed, brightness in three cardinal directions, twilight, temperature and precipitation you get a good impression on the current weather conditions at any time. For pole mounting an adapter is enclosed. For increased functional safety, the Weather station Compact autonomously monitors internal functions and reports faults directly to the KNX bus.

- + Smart functions for individual building control
- + No mobile parts – reduced need for maintenance
- + High functional safety by self-monitoring
- + Accessories for flexible mounting included in the scope of supply

- Rated voltage:  
AC24 V SELV  $\pm 10\%$  or  
DC21 V...32 V SELV
- Power consumption: typ. 7.5 W
- Connection: terminal yellow-white
- KNX medium: TP  
Commissioning mode: S-mode  
Power consumption KNX:  
typ. 450 mW
- Temperature  
Environment:  $-20\text{ }^{\circ}\text{C} \dots +55\text{ }^{\circ}\text{C}$   
Storage/transport:  $-40\text{ }^{\circ}\text{C} \dots +70\text{ }^{\circ}\text{C}$
- Protection: IP 44 (in position of use)
- Protection class: III
- Housing dimensions (WxHxD):  
88x170x204 mm  
(incl. mounting bracket)  
Weight: approx. 240 g  
Material: PC



	Wind speed	Wind direction	Global radiation	Brightness	Twilight
<b>KNX Weather station Compact</b> Art.-No. 135 15 700	Type: therm. anemometer Measuring range: 0...40 m/s Resolution: 0.1 m/s Accuracy with horizontal flow: $\pm 2\text{ m/s}$	–	–	Type: silicon sensor Number: 3 (E/S/W) Measuring range: 1...110 klx Resolution: 1 klx Accuracy: $\pm 10\%$ Spectral range: 700...1050 nm	Type: silicon sensor Direction: South Measuring range: 0...674 lx Resolution: 1 lx Accuracy: $\pm 10\%$
<b>KNX Weather station Comfort Plus</b> Art.-No. 135 15 800	Type: therm. anemometer- Measuring range: 0...40 m/s Resolution: 0.1 m/s Accuracy with laminar flow: $\pm 1\text{ m/s}$ ( $\leq 10\text{ m/s}$ ) $\pm 5\%$ ( $> 10\text{ m/s}$ )	Type: therm. anemometer Measuring range: 1...360° Resolution: 1° Accuracy with laminar flow: $\pm 10^{\circ}$	Type: silicon sensor Measuring range: approx. 0...1300 W/m <sup>2</sup> Resolution: 1 W/m <sup>2</sup> Accuracy: $\pm 10\%$ Spectral range: 350...1100 nm	Type: silicon sensor Number: 4 (N/E/S/W) Measuring range: approx. 0...150 klx Resolution: 0.1 klx Accuracy: $\pm 3\%$ Spectral range: 475...650 nm	Type: silicon sensor Measuring range: approx. 0...900 lx Resolution: 1 lx Accuracy: $\pm 10\%$

## KNX Weather station Comfort Plus



Maximum flexibility and most extensive range of functions to meet all demands in the Smart Building. The KNX Weather station Comfort Plus offers all functions to provide optimal recording of the weather data. Mounted directly on the pole with only one tool and aligned, more than 10 measuring values are available for building control in line with demand. Shading control for up to eight facades as well as integrated logic, locking and limit value functions form the basis for an easy adaptation to all requirements. The weather station can act autonomously and use information on position and time received via GPS/GLONASS for control tasks. Measuring values on wind direction, air pressure and humidity clearly enhance the information on the current weather situation. The Weather station furthermore provides information on the windchill temperature as well as on thermal comfort and mugginess. Measuring values on relative and absolute humidity are provided for increased demands on ventilation tasks. Special functional safety is guaranteed by maintenance-free sensors, e.g. a capacitive precipitation measurement. Thanks to the translucent housing the Weather station Comfort Plus is inconspicuous at the facade.

- Rated voltage:  
AC24 V SELV  $\pm 10\%$  or  
DC21 V...32 V SELV
- Power consumption: 100...400 mA
- Type of cable: LiYCY 4xAWG26
- Connection: 4-pin plug
- KNX medium: TP  
Commissioning mode: S-mode  
Power consumption KNX:  
max. 5 mA
- Temperature  
Environment:  $-30\text{ }^{\circ}\text{C} \dots +60\text{ }^{\circ}\text{C}$   
Storage/transport:  $-25\text{ }^{\circ}\text{C} \dots +70\text{ }^{\circ}\text{C}$
- Protection: IP 44 (in position of use)
- Protection class: III
- Dimensions ( $\varnothing \times H$ ): 130x68 mm  
Weight: approx. 230 g  
For pole mounting:  
25 mm pipe diameter  
Material: PC



- + Reliability provided by 10 maintenance-free sensors
- + Optimal range of functions for demanding solutions
- + Windchill temperature, thermal comfort and mugginess information
- + Easy mounting with only one tool

Humidity (rel./abs.)	Precipitation	Temperature	Air pressure	Perceived weather	GPS/GLONASS
–	Conductometry Measuring range: 0/1 (no/yes) Accuracy: drizzle	Type: PTC Measuring range: $-20 \dots +55\text{ }^{\circ}\text{C}$ Resolution: 1 K Accuracy: $\pm 1\text{ K}$	–	–	–
Measuring range rel. humidity: $0 \dots 100\%$ abs. humidity: $0 \dots 400\text{ g/m}^3$ Resolution rel. hum.: 0,1 % Accuracy rel. hum.: $\pm 10\%$ at $20\text{ }^{\circ}\text{C}$	Type: capacitive sensor Measuring range: 0/1 (no/yes) Accuracy: drizzle	Type: PT1000 Measuring range: $-30 \dots +60\text{ }^{\circ}\text{C}$ Resolution: 0.1 K Accuracy: $\pm 1\text{ K}$	Type: Piezo resistive Measuring range: $300 \dots 1100\text{ hPa}$ Resolution: 0.01 hPa Accuracy: $\pm 0.5\text{ hPa}$ at $20\text{ }^{\circ}\text{C}$ Long-term stability: $\pm 0.1\text{ hPa/year}$	Windchill temperature, thermal comfort and mugginess information	Latitude, longitude date/time, station height Position accuracy.: 3 m (50 % CEP)