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Weather station Plus for KNX



Specification	Order No.	Packing unit	PS	EAN
	2074 00	1		4010337031185

Features

- The weather station Plus for KNX detects the wind speed, wind direction, precipitation, global radiation, temperature, twilight, relative humidity and air pressure as well as determining brightness directionally using four sensors.
- The measured data is used to calculate the maximum value for the brightness sensors, absolute humidity, perceived temperature and comfort level.
- Area of use is the automatic, weather-dependent shading control system specifically for home use.
- The weather station monitors some of its own major functions and reports corresponding faults automatically via message objects on the bus.
- Monitoring of the applied voltage. Failure is reported using a communication object on the bus.
- With integrated bus coupler.
- Mounting outdoors on a pole or on the wall.
- The position of the mounting location can be determined using GPS.

Functions

- Two limit values with adjustable hysteresis for each sensor can be parameterised internally or specified as 8-bit or 16-bit values.
- A teach-in function enables a current measured value to be applied as a limit.
- All limit objects have a parameterisable switch-on and switch-off delay.
- 16 logic gates (AND, AND with return, OR, exclusive OR, NAND, NOR) with up to 4 inputs for external and internal 1-bit values.
- Four blocking elements for disabling functions or manual operation.
- An automatic shading control system for up to 8 facades can be realised with sun position-dependent slat tracking and a hanging height control system.
- All values can be output in the event of a change of value or on a cyclical basis. The outputs of the blocking elements can only be sent in the event of a change of value.
- Weather stations can be cascaded using the logic functions. This is recommended for upgrading functions (measurement of the wind speed on different facades) or for a significant increase in functional reliability due to redundancies.

Technical data

KNX medium:	TP256
Power supply	
- Rated voltage:	DC 21 to 32 V SELV
- Current consumption:	100 to 400 mA
Connection cable	
- Cable type:	LiYCY 4xAWG26

Illustrations are similar and may deviate from originals.

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- Cable length:	5 m
- Total length per line:	15 m
Number of weather stations:	max. 3 (per line)
Ambient temperature:	-30 °C to +60 °C
Protection class:	IP44
Wind direction sensor	
- Measurement range:	1 to 360°
- Resolution:	1°
- Precision:	±10°
Wind speed sensor	
- Measurement range:	0 to 40 m/s
- Resolution:	0.1 m/s
- Accuracy (≤ 10 m/s):	±1 m/s
- Accuracy (≥ 10 m/s):	±5%
Temperature sensor	
- Measurement range:	-30 °C to +60 °C
- Resolution:	0.1 K
- Precision:	±1 K
Precipitation sensor	
- Measurement range:	yes / no
- Precision:	Fine drizzle
Brightness sensors	
- Quantity:	4
- Measurement range:	0 to 150 klx
- Resolution:	1 klx
- Precision:	±3%
Twilight sensor	
- Measurement range:	0 to 900 lx
- Resolution:	1 lx
- Precision:	±10 lx
Air pressure sensor	
- Measurement range:	300 to 1100 hPa
- Resolution:	0.01 hPa
- Precision:	±0.5 hPa
Humidity sensor	
- Measurement range:	0 to 100 % rel. humidity
- Resolution:	0.01 g/m³
- Precision:	±10% rel. humidity (20 °C)
- Abs. Humidity:	0 to 400 g/m³
Global radiation	
- Measurement range:	0 to 1300 W/m²
- Resolution:	1 W/m²
- Precision:	±10%
Dimensions:	Dia. 130, H 68

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Notes

- Measured values are valid for the mounting location. Differences to other weather services are possible.
- All accuracy values for the measured values refer to the full respective measuring value range.
