

Product data sheet

Universal weather station



Reference number

2225 WS U

KNX universal weather station

compact housing
including fastening arm
ETS product family: Input
Product type: Analogue input 4-gang

Intended use

- Measurement and evaluation of weather data: wind speed, wind direction, precipitation, brightness, global radiation, twilight, temperature, relative air humidity and air pressure
- Installation on the outside of buildings, preferable in the roof and facade area
- Operation with additional power supply (ref.-no.: WSSV 10)

Product characteristics

- Integrated GPS/GLONASS receiver for automated positioning
- Calculation of additional weather data: absolute air humidity, chill temperature, comfort
- Function for shading control
- Integrated KNX bus coupling unit
- Measuring and limit value monitoring
- Software logic modules for linking events
- Integrated heating

The weather station needs an operating voltage supply of 24 V AC, for example power supply module ref.-no. WSSV 10.

Spare part:

fastening arm ref.-no.: 2225 BFA

Technical data

Power supply

Rated voltage:	AC 24 V SELV ($\pm 10\%$) DC 21 ... 32 V SELV
Current consumption:	100 ... 400 mA (dependent on the weather)

Protection class:

III

Cable type:

LiYCY 4xAWG26

Cable length:

5 m

Total length per line:

15 m

Number of weather stations:

max. 3 (per line)

Rated voltage KNX:

DC 21 ... 32 V SELV

Current consumption KNX:

max. 5 mA

Ambient temperature:

-30 ... +60 °C

Storage/transport temperature:

-25 ... +70 °C

Protection level:

IP 44 (in position for use)

Dimensions (Ø x H):

130 x 68 mm

Wind direction sensor

Measuring range:	1 ... 360°
Resolution:	1°
Accuracy:	± 10 % (laminar wind stream)
Wind speed sensor	
Measuring range:	approx. 0 ... 40 m/s
Resolution:	0.1 m/s
Accuracy (≤ 10 m/s):	± 1 m/s
Accuracy (> 10 m/s):	± 5 %
Temperature sensor	
Measuring range:	-30 ... +60 °C
Resolution:	0.1 K
Accuracy:	± 1 K (wind > 2 m/s, for -5 ... +25 °C)
Precipitation sensor	
Measuring range:	yes / no
Accuracy:	fine drizzle
Brightness sensors	
Number:	4
Measuring range:	approx. 0 ... 150 klx
Resolution:	1 klx
Accuracy:	± 3 %
Spectral range:	475 ... 650 nm
Dawn sensor	
Measuring range:	approx. 0 ... 900 lx
Resolution:	1 lx
Accuracy:	± 10 lx
Air pressure sensor	
Measuring range:	300 ... 1100 hPa
Resolution:	0.01 hPa
Accuracy:	± 0.5 hPa (20 °C)
Humidity sensor	
Measuring range:	0 ... 100 % relative humidity (r. h.)
Resolution:	0.1 % relative humidity (r. h.)
Accuracy:	± 10 % rel. humidity (20 °C)
Absolute humidity:	0 ... 400 g/m ³
Resolution:	0.01 g/m ³
Global radiation	
Measuring range:	0 ... 1300 W/m ²
Resolution:	1 W/m ²
Accuracy:	± 10 %
Spectral range:	350 ... 1100 nm
All accuracy specifications relate to the respective measuring range end value.	