

**Wind sensor**  
Art.-No.: WS 10 W  
**Rain sensor**  
Art.-No.: WS 10 R

## Operationsmanual

### 1 Safety instructions

**Electrical equipment may only be installed and fitted by electrically skilled persons.**

**Failure to observe the instructions may cause damage to the device and result in fire and other hazards.**

**Do not operate in the vicinity of chimneys or other exhaust or ventilation systems. Doing so will compromise function.**

**Do not operate in the vicinity of radio transmitter systems. Doing so will compromise function.**

**Select the mounting place so that the device will still be accessible for maintenance purposes.**

**Do not lay sensor cables parallel to mains- or load-transmitting cables. Doing so will compromise function.**

**These instructions are an integral part of the product, and must remain with the end customer.**

### 2 Function

#### Intended use

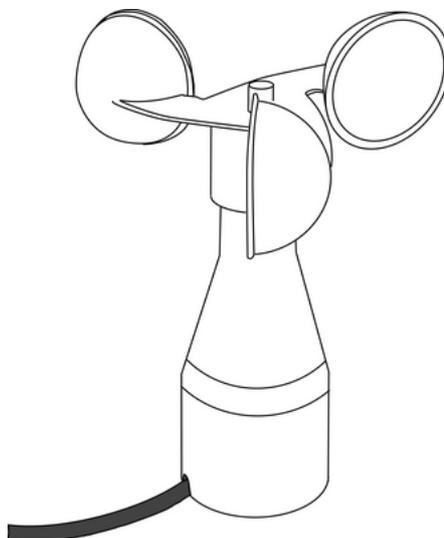
- Sensors for measuring weather data
- Power is supplied to the sensors and the sensor signals are evaluated via additional electronics, e.g. a weather station

Wind sensor (picture 1):

- Detection of the horizontal wind speed
- Vertical installation in outdoor areas, e.g. on walls of buildings, using the supplied mounting bracket

Rain sensor (picture 2):

- Detection of precipitation
- Installation in outdoor areas, e.g. on walls of buildings, using the supplied 110° mounting bracket



picture 1: Wind sensor – View

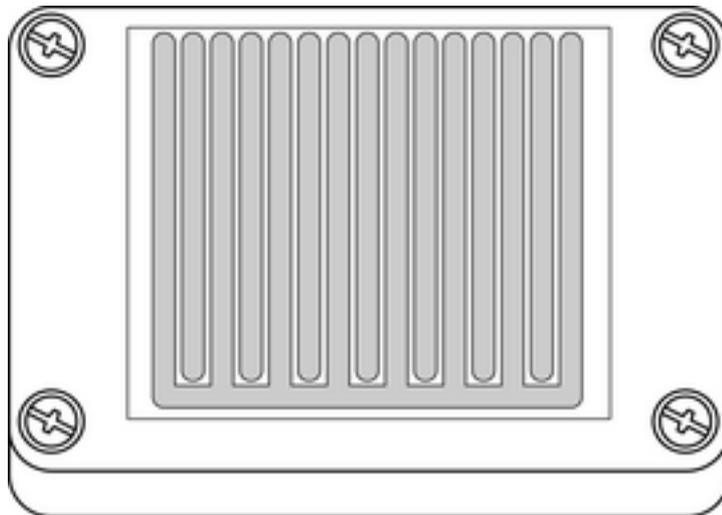
## Product characteristics

### Wind sensor

- Measurement of the rotational speed of the anemometer
- Output with analogue output signal 0...10 V
- Maintenance-free
- Operation without additional power supply possible
- i** Recommendation: To avoid dew and condensation, use a separate 24 V AC/DC power supply for heating (see chapter 4.2. Accessories).
- i** For proper function, the anemometer must be able to rotate freely. Heavy fouling, icing or frozen precipitation can jam the anemometer.

### Rain sensor

- Measurement of the electrical conductivity on the sensor surface
- Output by means of analogue output signal: 0= dry, 10 V = rain
- Heating of the sensor surface with separate 24 V AC/DC power supply (see chapter 4.2. Accessories)
- i** The sensor signal is reset when the sensor surface has dried out and a run-on time of 4 minutes has elapsed. The heater speeds up the drying and melts snow and ice.
- i** For proper function, clean the rain sensor regularly with a mild cleaning agent.



picture 2: Rain sensor – view

## 3 Information for electrically skilled persons

### 3.1 Fitting and electrical connection



#### **DANGER!**

**Electrical shock on contact with live parts in the installation environment.  
Electrical shocks can be fatal.**

**Before working on the device, disconnect the power supply and cover up live parts in the working environment.**

#### **Mounting and connecting the wind sensor**

Selecting a suitable installation location. Do not install in wind shadows or locations with strong turbulence, updrafts, etc.

- Mount wind sensor vertically on the building wall using the enclosed mounting bracket.
- Connect wind sensor to an evaluation device, e.g. a weather station.

brown	Operating voltage 24 V DC
white	Operating voltage earth, GND
green	Sensor signal 0...10 V output
yellow	Sensor signal earth, GND output
grey, pink	Heating connection
green-yellow	Shield, earth connection

### Installing and connecting the rain sensor

Select a suitable installation location: rain must be able to reach the sensor in an unobstructed manner. Do not install under projecting roofs.

- Mount rain sensor on wall of building using enclosed 110° mounting bracket.
- Connect rain sensor to an evaluation device, e.g. a weather station.

brown	Operating voltage 24 V DC
green	Sensor signal 0...10 V output
white	Common earth operating voltage/sensor signal, GND
yellow, grey	Heating connection

## 4 Appendix

### 4.1 Technical data

#### Wind sensor, Art.-No.: WS 10 W

Supply	
Rated voltage	DC 18 ... 32 V SELV
Current consumption	6 ... 12 mA
Heating	
Rated voltage	AC/DC 24 V
Switch-on current	max. 1 A
Ambient conditions	
Ambient temperature	-25 ... +60 °C
Safety class	III
Protection rating	IP 65 (in position for use)
Output signal	
Measuring range	0.9 ... 40 m/s
Load	max. 60 m/s (for short periods)
Output voltage	DC 0 ... 10 V
Load	min. 1.5 kΩ
Connection cable	
Cable type	LiYY 6x0.25 mm <sup>2</sup>
Cable length	approx. 3 m
Can be extended up to	max. 100 m
Dimensions Ø×H	134×160 mm
Weight	approx. 300 g

#### Rain sensor, Art.-No.: WS 10 R

Supply	
Rated voltage	DC 15 ... 30 V
Current consumption	approx. 10 mA
Heating	
Rated voltage	AC/DC 24 V
Power consumption	max. 4.5 W

Ambient conditions	
Ambient temperature	-30 ... +70 °C
Safety class	III
Protection rating	IP 65
Output signal	
Output voltage	DC 0 / 10 V
Load	min. 1 kΩ
Reaction time	max. 4 min
Connection cable	
Cable type	LiYY 5x0.25 mm <sup>2</sup>
Cable length	approx. 3 m
Can be extended up to	max. 100 m
Dimensions L×W×H	58×83×17 mm
Weight	approx. 300 g

## 4.2 Accessories

Power supply AC 24 V ~

Art.-No.: WSSV10

## 4.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office:

### **ALBRECHT JUNG GMBH & CO. KG**

Service Center  
Kupferstr. 17-19  
D-44532 Lünen  
Service-Line: +49 (0) 23 55 . 80 65 51  
Telefax: +49 (0) 23 55 . 80 61 89  
mail.vka@jung.de

### **General equipment**

Service-Line: +49 (0) 23 55 . 80 65 55  
Telefax: +49 (0) 23 55 . 80 62 55  
mail.vkm@jung.de

### **KNX equipment**

Service-Line: +49 (0) 23 55 . 80 65 56  
Telefax: +49 (0) 23 55 . 80 62 55  
mail.vkm@jung.de

The € symbol is a free trade symbol, which is solely intended for the authorities and does not guarantee any properties.

### **ALBRECHT JUNG GMBH & CO. KG**

Volmestraße 1  
D-58579 Schalksmühle

Telefon: +49.23 55.8 06-0  
Telefax: +49.23 55.8 06-1 89  
E-mail: mail.info@jung.de  
Internet: www.jung.de  
www.jung-katalog.de