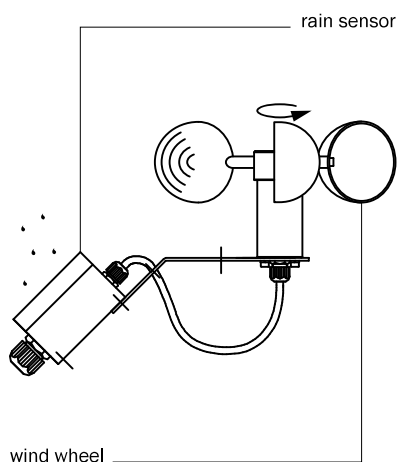
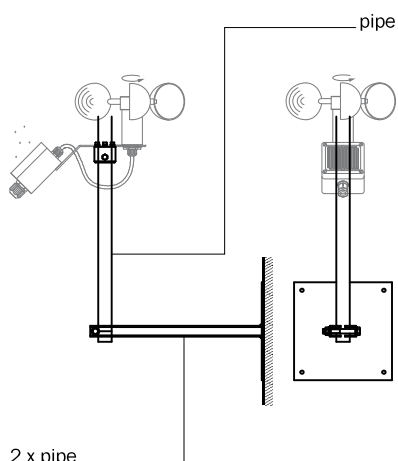


**Order designation:** Set WRA 501  
**Set consisting of:** Wind-rain detector WRF 501, wall unit Solo for WRF/RS and wind-rain module WR-MOD 501

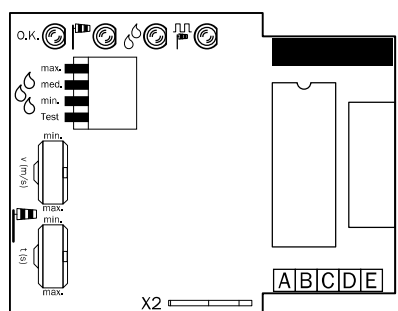
## Wind-rain sensor WRF 501



## Wall unit Solo for WRF/RS



## Wind-rain-module WR-MOD 501



The Set WRA 501 is a modular expansion of the smoke and heat ventilation control unit. The wind-rain sensor WRF must be mounted at the main weather side at an unprotected location (lightning protection earthing). Several mounting options with special accessories can be performed. In the case of rain, snowfall or wind, a switch signal is directed to the wind-rain module WR-MOD 501 (in the smoke and heat ventilation control unit).

### Wind wheel function

The wind sensor of the WRF 501 consists of a wind wheel which triggers a specific switch frequency according to the wind speed, conducting to the switch operation at the control unit.

### Wind wheel function control

The wind wheel is tested according to its smooth functioning.

### Rain sensor

On the upper side of the rain sensor of the WRF 501 there is a corrosion-resistant sensor plate, which is connected to an alternating voltage of approx. 5 V. The sensor plate is electric, for the quick drying of the electrodes, e.g. after a rainfall. When rainwater gets onto the sensor surface, a signal is routed to the wind-rain module and a switching operation is activated.

### Rain sensor function control

When the sensor surface of the rain sensor is touched by a moistened hand, a rain message at the control unit is activated.

### Wind wheel

The wind wheel must be checked annually for dirt and smooth functioning.

### Rain sensor

The sensor plate must be cleaned annually, with a higher frequency in case of a strong environmental load, and eventually be exchanged or renewed.

Type	Set WRA 501
operating voltage	24 V DC 230 V AC
power consumption	approx. 2 W
temperature range	-5 °C to +40 °C
materials/housing colour	<b>Wind wheel</b> alu, polyethylene colour: anodized, black
	<b>Rain sensor</b> ABS, epoxy resin, galvanically gold-plated colour: grey, RAL 7035 (light grey)

standing unit for WRF 401/RS 401	→chapter 11.4, page 421, „Standing Unit for WRF/RS“
wall unit Solo for WRF 401/RS 401	→chapter 11.4, page 422, „Wall Unit Solo for WRF/RS“
wall unit Duo for WRF 401/RS 401	→chapter 11.4, page 423, „Wall Unit Duo for WRF/RS“
wind-rain module WR-MOD 501	→chapter 11.4, page 414, „Wind-rain module WR-MOD 501“

**The grounding is performed in accordance with the valid installation instructions (When using our optional extras at the marked position).**

## Short description

## Maintenance

## Technical data

## Accessories

## Attention!