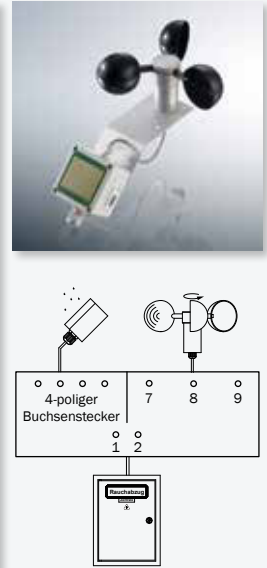
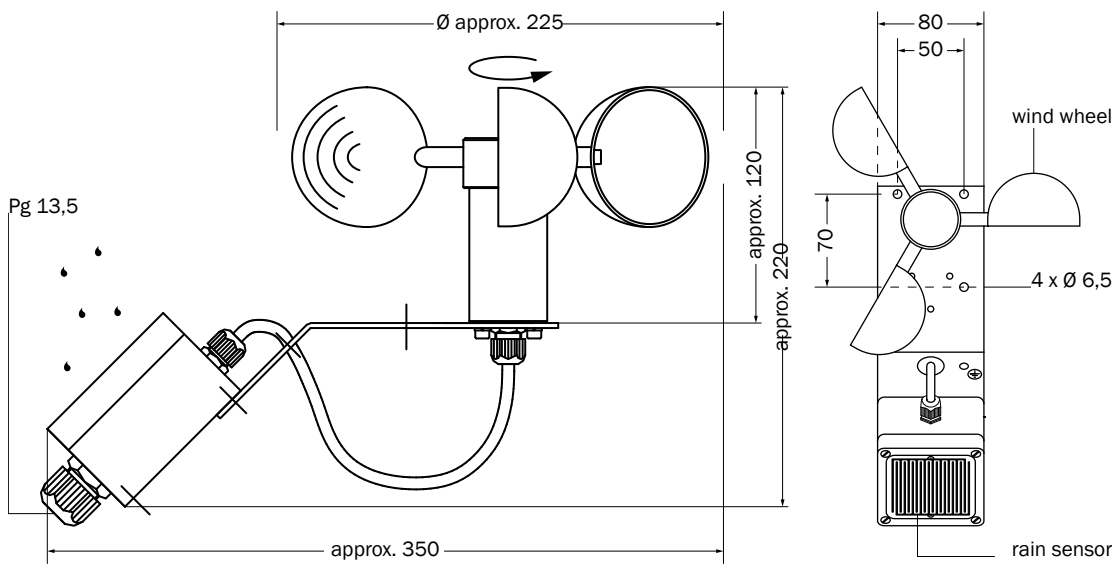


Order designation: Wind-rain sensor WRF 501



Wind wheel

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.

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 electrically heated 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.

The wind-rain sensor WRF 501 must be mounted at the main weather side at an unprotected location (lighting protection earthing). Several mounting options with special accessories can be performed. In the case of rain or snowfall, or wind, a switch signal is directed to the switch device WR-MOD 501 (→chapter 11.4, page 414, "Wind-Rain Module WRM 501"; in the smoke and heat ventilation control unit).

Wind wheel function control

Check the wind wheel if it is running smoothly.

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.

Short description

Type	WRF501
operating voltage	24 V / 50 Hz
housing colour	wind wheel: galvanized black; rain sensor: RAL 7 035 (light grey)
power consumption	approx. 2 W
temperature range	-20 °C to +80 °C
maintenance	wind wheel: annual test for dirt and smooth functioning rain sensor: yearly cleaning of sensor plate; more frequently according to strong environmental load, eventually exchange or renewal
materials	wind wheel: aluminum, polyethylene rain sensor: ABS, epoxy resin, galvanically gold-plated

Technical data

standing unit for WRF/RS	→chapter 11.4, page 421, "Standing Unit WRF/RS"
wall unit Duo for WRF/RS	→chapter 11.4, page 423, "Wall Unit Duo for WRF/RS"
wall unit Solo for WRF/RS	→chapter 11.4, page 422, "Wall Unit Solo for WRF/RS"

Accessories

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

Attention!