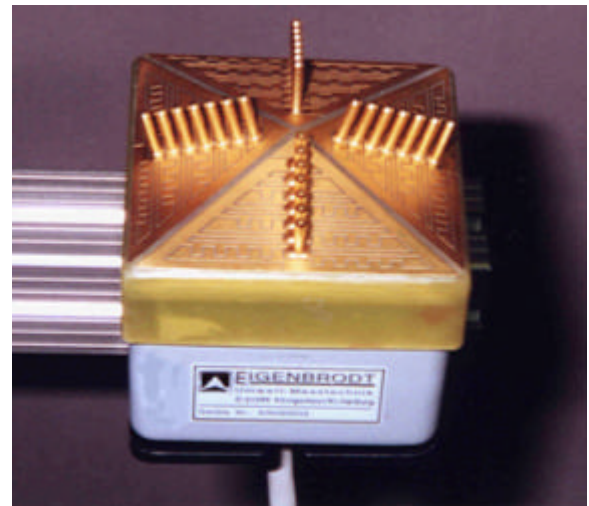




RS 85

## PRECIPITATION SENSOR

for establishing start and end of precipitation



- large sensitive sensor surfaces (approx. 60 cm<sup>2</sup>), gold plated
- vertical pins in four directions
- adjustable, proportionally controlled heating of the sensor surfaces in two levels
- cut out delay adjustable

NRS 80

## PRECIPITATION SENSOR

for establishing start and end of precipitation



- sensitive sensor surfaces (approx. 40 cm<sup>2</sup>), gold plated
- adjustable, proportionally controlled heating of the sensor surface in two levels
- cut out delay adjustable

# RS 85 PRECIPITATION SENSOR

for establishing start and end of precipitation

## TECHNICAL DESCRIPTION RS 85

The precipitation sensor RS 85 is employed for controlling closure settings, collection apparatuses and status monitoring. The electronics are enclosed in a substructure housing made of weatherproof polyester. The electronic heating and the sensor surfaces are integrated into the cover which may unscrewed. The sensor surfaces are arranged in a pyramid of 15° to ensure that the rain water readily runs off. On each of the four sensor surfaces are vertical pins to capture snowflakes for melting. As protection against corrosion both the sensor surfaces and the pins are gold plated. The built in 2-step electronic heating is proportionally controlled and can be adjusted to the needs of the user. The lower step is active in basic operation. The second more powerful heating-step is activated as soon as there is a rain signal, so the fluid on the surface can evaporate faster.

## PRINCIPLE of MEASUREMENT

When it rains the water enables an electrical connection between the individual electrodes on the sensor surface. This activates an electronic switch which closes a relay. The sensitivity of the operating threshold may be adjusted by the user to fit his needs. After the sensor surfaces have dried, the relay is switched off. The point in time at which the switch-off occurs is determined by the following factors: present temperature for the sensor, environmental factors, temperature, humidity, wind, etc..

## SPECIFICATIONS RS 85

Power supply total half wave sufficient	24 V DC / AC, max 20 Watt
Range of measurement precipitation switch on switch off	yes/no without delay with delay, adjustable 0 to 270 sec in 30 sec steps.
Sensitive surface	approx. 60 cm <sup>2</sup>
Outlet signal Opener/closer Switch supply Switch current Switch power	potential free max. 100 V DC / 250 V AC max. 5 A max. 1250 VA
Heating proportionally controlled 24 V DC	
Dimensions	83 x 83 x 85 mm
weight	700 g
system of protection	IP 65

## OPTION RS 85

- power supply in aluminium housing 220-230 V AC / 24 V DC
- Mast (made out of galvanized steel) height approx. 1,5 m
- flange for mounting onto the mast (aluminium, anodised).

*Specification are subject to change without prior notice, E & OE.*

# NRS 80 PRECIPITATION SENSOR

for establishing start and end of precipitation

## TECHNICAL DESCRIPTION NRS 80

The precipitation sensor RS 85 is employed for controlling closure settings, collection apparatuses and status monitoring. The electronics are enclosed in a substructure housing made of weatherproof polyester. The electronic heating and the sensor surfaces are integrated into the cover which may unscrewed. An optional holding device angles the sensitive surface to 30° to ensure that the rain water readily runs off. The sensor surfaces are gold plated as protection against corrosion. The built in 2-step electronic heating is proportionally controlled and can be adjusted to the needs of the user. The lower step is active in basic operation. The second more powerful heating-step is activated as soon as there is a rain signal, so the fluid on the surface can evaporate faster.

## SPECIFICATIONS NRS 80

Power supply total half wave sufficient	24 V DC / AC, max. 700 mA
Range of measurement precipitation switch on switch off	yes/no without delay with delay, adjustable 0 to 270 sec in 30 sec steps.
Sensitive surface	approx. 40 cm <sup>2</sup>
Outlet signal Opener/closer Switch supply Switch current Switch power	potential free max. 100 V DC / 250 V AC max. 5 A max. 1250 VA
Heating proportionally controlled 24 V DC	
Dimensions	80 x 75 x 60 mm
weight	400 g
system of protection	IP 65

## OPTION NRS 80

- power supply in aluminium housing 220-230 V AC / 24 V DC
- Mast (made out of galvanized steel) height approx. 1,5 m
- flange for mounting onto the mast (aluminium, anodised).

*Specification are subject to change without prior notice, E & OE.*