

Rain sensor

Article no.
663595

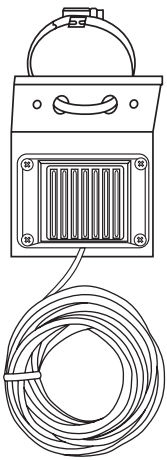


Table of Contents

1.	Function	1
2.	Installation	1
3.	Technical Data	2

1. Function

The rain sensor is used for recording and evaluating rainfall and is intended for outdoor installation. The installation is carried out with the help of the 45° mounting bracket supplied.

Via a wave-form sensor, using the conductivity of the water, rainfall is established, evaluated and converted into an output signal (dry = 0 V, rain = 10 V).

Intermediate values are not recorded.

The end of the rainfall can be detected almost immediately due to the integrated heating (power supply required).

2. Installation

Installation notes:

- An additional electronic module (e.g. the INSTABUS weather station), which can send measured-value or command telegrams on the INSTABUS EIB dependent on the analogue signals, is required to supply the sensors (DC 24 V) and to evaluate the sensor signals.
- Mount the sensors in an accessible location to enable cleaning when necessary.
- Do not mount sensors in the vicinity of transmission equipment (e.g. mobile radio converter).
- Do not lay sensor cables parallel to mains cables or load-carrying cables. To avoid electromagnetic irradiation, a distance of several centimetres from these cables must be maintained.
- Do not damage the sensor surface and clean regularly with a mild cleansing agent.
- When installing the device, ensure that the rainfall is uninterrupted (e.g. not under a roof overhang).

Connection

1	white	Reference potential (ground)
2	brown	Operating voltage DC 24 V
3	green	Output 0 .. 10 V +
4+5	yellow/ grey	Connection of the power supply for the heating AC/DC 24 V

3. Technical Data

External supply

Supply voltage:	DC 24 V (DC 15 – 30 V)
Power consumption:	approx. 10 mA (without heating)
Heating:	DC/AC 24 V max. 4.5 W
Incoming cable:	3 m, LiYY 5x0.25 mm ² extendable to max. 100 m (observe the installation notes)

Output

Dry:	0 V
Rain:	DC 10 V (min. 1 k load)
Ambient temperature:	-30 °C to +70 °C
Type of protection:	IP 65
Installation site:	approx. 45° incline with mounting bracket
Abmessungen (LxWxH):	58x83x17 mm
Weight:	approx. 300 g