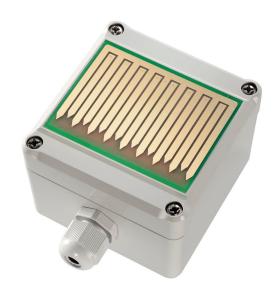
OPERATION MANUAL

Rain Detector REGME model 12 V AC/DC or 24 V AC/DC



Description



Features

- Safe operation, electrolytic measurement principle
- Deposition can be detected as rain or snow
- Operating voltage 12 or 24 V DC/AC
- Large, heated sensor area for fast drying and operation in winter season
- Potential free contact output (Relay) 30 V/4 A
- Sensitivity and switching mode adjustable
- Universal wall/mast mounting bracket as accessories

Applications

- Nurseries, Agriculture
- Control of Ventilation panels
- Automatic switch for Blinds and Rolling windows
- Building instrumentation
- Weather stations

Functional description

The large sensor area reacts to rain or snow. The switch polarity and sensitivity are adjustable. The optionally switched heater prevents freezing or dew formation and accelerates drying. In the maximum sensitivity setting, the device is also suitable for recognizing fog.

Application

The rain guard is fitted with a relay contact for switching low voltages up to 30 V DC/AC which can be used to operate any switching device e.g. a marking control device. Sensitivity can be adjusted within a wide range. The device is provided with a heater for faster drying and snow recognition.

Mounting

Installation of the rain sensor unit should be carried out by only Authorised personnel. The applicable safety regulations should be followed! The Rain Sensor can be installed on a wall/mast mounting bracket. If such accessories are not used, care should be taken that the mounting angle is approximately 30 ° from horizontal. The points of sensor area must be on the down side. Mounting of the Rain Sensor should be done at a place which is freely accessible for rain. Dripping water can adversely delay switching back or can lead to a permanent ON/OFF of the contacts.

Technical Data	
Measurement method	Electrolytic AC measurements
Input current	
12 V Model	60 mA, Heater 80 - 300 mA (PTC)
24 V Model	50 mA, Heater 40 - 180 mA (PTC)
CE-Conformance	2014/30/EU
EMV-noise emission	EN 61000-6-3:2011
EMV-noise withstanding	EN 61000-6-1:2007
Cable gland	M16 x 1,5
Operating voltage	12 V AC/DC ± 10%
chooseable:	24 V AC/DC ± 10%
Output	output (relay) 30 V / 4 A,
	NO / NC selectable
Housing	ABS, ingress protection IP54
Dimensions (w x h x d)	80 x 82 x 58 mm
Article	ArtNo.
Rain Detector 12 V	REGME-12V
Rain Detector 24 V	REGME-24V
Combined wall/mast	REGME-WAHA
mounting bracket	

OPERATION MANUAL

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Connection

After removing the sensor cover, the control cable is to be inserted in the cable gland M16.

Supply voltage is to be connected to the terminals VCC and GND. Terminals NC, COM, NO are the potential free changeover contacts for switching.

Precautions:

- · The device is suitable only for low voltages and should not be operated on mains supply!
- The relay contact is only suitable for low value signals and should not come in contact with mains supply!
- The protection type is valid only with an intact, complete casing, cover screws and cable gland properly tightened, and the covergasket should always be available on the sensor cover!
- The suitability for certain applications is to be checked by the

Settings

Signal generator output (optional)

At the connection terminals (Pin BUZ and GND) a passive Piezo signal generator can be connected. The condition of signal (acustic signal for dry or wet) can be selected with the plug links S1-S2 or S2-S3. In the default-position S2-S3, the signal generator is inactive

Switching mode

The switching mode of the relay (pickup or dropout with rain) can be selected with the plug links T1-T2 or T2-T3. In the factory settings, link T1-T2 is connected and the relay closes if the sensor surface gets wet.

Heating

The sensor surface is heated, if the link of HZ1-HZ2 is connected. To ensure faster drying and for operation below freezing point, the heater should be switched on. For sensing fog, the heater can be switched off.

Sensitivity setting

The sensitivity to moisture signal can be adjusted through the potentiometer. Rotating the potentiometer knob in the anti clockwise direction gives higher sensitivity (left = high sensitivity, right = low sensitivity). For normal rain signal, the middle position is most suitable. Please note that no function takes place in the end position!

There is a green LED on the device to indicate the operation status and a red LED to indicate the switch position (meansrelay contact closed).

Maintenance

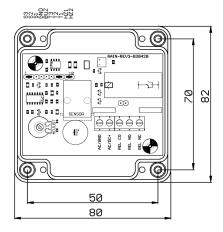
The Rain Sensor unit is almost maintenance free. The sensor surface must be occasionally cleaned with a moist cloth (e.g. once annually, depending on the place of installation). In case of persistent condition, even if it does not rain, it triggers due to strong contamination.

Connection Layout	
REL NC	Opening switch contact
REL NO	Closing switch contact
REL CO	Common switch contact
AC/DC	Operating voltage AC or 24 V DC +10%

AC/GND Operating voltage AC or 0 V

Plug Links Configuration				
1	S3	Switch mode signal generator (dry)		
2	S2	Common contact to S3 and S1		
3	S1	Switch mode signal generator (wet)		
4	GND	Signal generator ground		
5	BUZ	Signal generator output		
6	T3	Switch mode relay (dry)		
7	T2	Common contact to T3 and T1		
8	T1	Switch mode relay (wet)		
9	HZ1	Heating		
10	HZ2	Heating		
factory setting: S3 - S2, T1 - T2, HZ1 - HZ2				

Dimensions



Accessoires

wall / mast mounting bracket including mouting hardware



Attention

Please avoid extreme mechanical and inappropriate exposure.

The device/product is not suitable for potential explosive areas and medical-technical applications.

