NEW 230 V RAIN GAUGE GB

Electronic device for the detection of rain.

TECHNICAL DATA:

- Power supply : 230 V a/c 50-60 Hz 4,5 W max.
- Relay contact : N.A. 5 A 30 V d/c; 5 A 250 V a/c
- Operating temperature : -10 to 70°C
- Packaging dimensions: 240 x 185 x 110 mm.
- Container : PC + ABS UL 94V-0 (IP54)

TERMINAL BOARD CONNECTIONS:

CN1: INPUT
L : 230 V a/c line input (Phase).
N : 230 V a/c line input (Neutral).

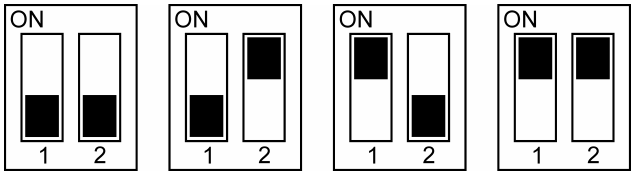
CN2: OUTPUT
R : Relay contact (Normally Open)
R : Relay contact (Normally Open)

OPERATIONAL DATA:

The sensor essentially consists of a sensitive surface which is able to detect the presence of water. In order to prevent condensation from building up and to facilitate evaporation, this surface is heated using an integrated heating element which is activated as necessary. The heating of the sensitive surface should therefore be considered normal. The condition of the sensor is monitored through the activation of two LEDs:

Reference LED	LED Off	LED On
R HEAT	Heating off	Heating on
RAIN detected	No precipitation	Precipitation

The output contact is activated depending on the information detected by the sensor, in accordance with one of the modes selected by the user though the SW1 dip switch:



Monostable Time 1 sec Time 3 min Time 12 hours

MONOSTABLE: the sensor is supplied in this mode by default. The output contact is closed when rain begins to fall and is opened when the surface of the sensor is dry.

TIME 1 SEC.: the output contact is closed when it begins to rain and remains closed for 1 second. This mode may be used, for example, when the rain sensor is connected to a device which only requires a command message.

TIME 3 MIN.: the output contact is closed when it begins to rain and remains closed for 3 minutes. This mode may be used, for example, when the rain sensor is connected to a device which requires a temporary command message.

TIME 12 HOURS: the output contact is closed when it begins to rain and remains closed for 12 hours from the moment at which the rain started to fall. This mode may be used, for example, when the rain sensor is connected to an automated irrigation device.

CAUTION: the rain sensor begins to operate normally approximately one minute after it has been connected to the electricity network. This period of time enables the sensor to reach the required temperature.

For the Installer – Important

- The New Rain gauge must be permanently connected to the power supply network and is not equipped with any type of 230 V a/c electric line sectioning device. The installer is responsible for installing a sectioning device in the system. An omnipolar switch with overheating category III must be installed. It must be positioned in such a way that it is protected against accidental closures.
- For connections (power supply and outlet contact) we recommend the use of flexible wires with an insulating sheath in harmonised polychloroprene (H05RN-F). The wires should have a minimum cross-section of 0.75 mm^2.
Fasten the connection cables using the cable clamp supplied with the product kit.
- Handle the sensor with care during the assembly process and make sure that all components are properly assembled. Pay particular attention to the ceramic plate and the flat connection cable. When closing the box again, it must fold back on itself normally.
- It is very important to establish an exact location so that the product is exposed to rain.
- Make sure that the sensor remains tilted at approximately 45 degrees (Fixing area at the top, round end of the box at the bottom).
- Fix the device to the wall using the screws and rawlplugs supplied with the product, in the correct position (see figure below, "Installing the Rain Gauge").
- Do not paint or varnish the sensitive surface of the sensor.
- The dirt which accumulates on the surface of the sensor restricts its sensitivity: we therefore recommend that it is cleaned once or twice a year using a damp cloth, after the electricity supply has been disconnected.
- All operations requiring the opening of the casing (such as installation, programming and repair, etc.) must be carried out by skilled professionals only.
- The control unit is not equipped with a sectioning device. Therefore, installer is responsible for installing a sectioning device in the system.

FOR THE USER - IMPORTANT

- The device should not be used by children or by individuals with reduced physical or psychological abilities unless supervision is provided or instruction given on how to operate it.
- Do not let children play with the device; keep radio controls out of their reach.
- CAUTION: Keep this instruction manual in a safe place and adhere to the important safety instructions contained within it. Non-adherence to these instructions may lead to property damage and serious accidents.
- Examine the system frequently to check for any signs of damage. Do not use the device if it needs to be repaired.
- If the connection wires have to be replaced, please contact a qualified technician only.

The below product:

Electronic Control Unit:

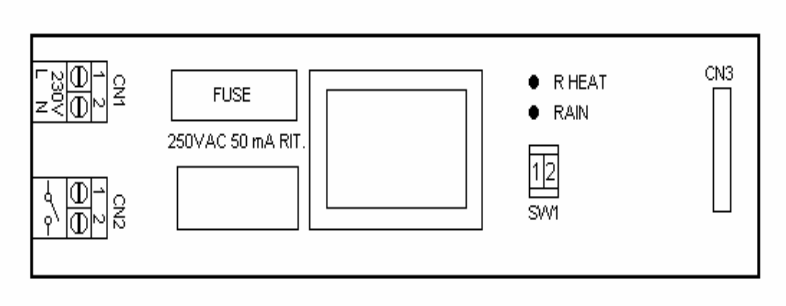
LG 2201

Complies with the requirements of Directives EMC 2004/108/EC, LVD 2006/95/EC.

CE

Rev. 1.2 dated 12.04.07

INTERNAL CONNECTIONS OF THE RAIN GAUGE:



INSTALLING THE RAIN GAUGE: