

# Precipitation Sensor

## Features

- Compact
- Fast response time
- Insensitive to dust, dirt or metal pollution
- Open collector switch output
- Heater included to minimise effect of dew and fog and speed ON/OFF indication.



The WS-MM-204 rain sensor has been developed for the detection of precipitation like rain and snow. When precipitation falls on the green sensor surface the output (Open collector) will switch on to GND.

The special green coating was developed for protection against copper (or other metal) and other kind of pollution.

The rain sensor is also equipped with a circuit that heats the surface a few degrees above the ambient temperature. This insures the rain sensor is not sensitive to fog and dew. The heater helps to dry the surface after precipitation has ceased (and the output will switch faster to “no precipitation”).

The rain sensor can be equipped with an optional wind shield which prevents the wind from interfering with the indications.

## Specifications:

### Sensor:

Capacitive sensor with heating.

### Power Requirements:

12 VDC / 350 mA max.(180 mA typical)

### Output signal:

Open collector  
high = no precipitation  
low = precipitation

### Environmental Protection:

Sealed to IP65

### Operating Temperature:

20°C to 50°C

### Materials:

Polycarbonate

### Dimensions:

80 mm x 80 mm x 55 mm

### Weight:

200 grams

Connections	
Conn 1	12VDC supply voltage
Conn 2	GND
Conn 3	Sensitivity 1 (input, Low-Active)
Conn 4	Sensitivity 2 (input, Low-Active)
Conn 5	Frost detection (output, 8VDC positive active, CMOS)
Conn 6	Rain detection (output, Open collector, max 45V/500mA)

Sensitivity Adjustment (0V = LOW, Open = HIGH)

Connector 3	Connector 4	Sensitivity
LOW	LOW	Very low sensitivity
HIGH	LOW	Low sensitivity
LOW	HIGH	Normal sensitivity
HIGH	HIGH	High sensitivity

### ORDERING INFORMATION:

Model	Description
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<b>WS-MM-204</b>	<b>Precipitation Sensor</b>
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