

## Precipitation Sensor economy



### Description

Simple tipping bucket precipitation sensor.

Captured by the collector cone, rain drops into one chamber of the tipping bucket. The bucket tips when it has collected an amount of water equal to 0.2 mm of precipitation. As the bucket tips, it causes a switch closure and brings the second tipping bucket chamber into position. Water drains out through the screened drains in the base of the sensor.

Catchment area and resolution meet the recommendations of the WMO (World Meteorological Organization).

### Technical Data

#### Sensor

Sensing element.....	Tipping bucket
Transducer.....	Magnetic reed switch
Output signal .....	Potential-free contact closure
Resolution .....	0.2 mm precipitation per count
Accuracy	0..50 mm/h     ± (4% ± 1 count)
	50..100 mm/h   ± (5% ± 1 count)
Catchment area.....	200 cm <sup>2</sup>

#### Power Supply

Type .....	Not required
------------	--------------

#### Heating

Heating power .....	The sensor is not heated. A heated version of this sensor is available with partNo. 0832.
---------------------	---

## Casing

Material.....	Plastic
Dimensions .....	ø165 x 240 mm
Weight .....	1 kg
Mounting .....	The sensor mounts on a plate with ø170 mm external diameter.

## Electrical Connection

Cable.....	4 x 0.14 mm <sup>2</sup>
Terminals.....	Open wires

## Wiring

black	(+) reed switch
red	(+) reed switch
green	(-) reed switch
yellow	(-) reed switch

## Environmental Conditions

Operating temperature .....	0..+50 °C
Relative humidity .....	0..100%
Maximum wind speed.....	60 m/s

## Compliance

Caption area and resolution of the sensor meet the recommendations of WMO (World Meteorological Organization).



**Wilmers  
Meßtechnik**

**Hirschgraben 24  
D-22089 Hamburg • Germany**

**phone: +49(0)40-75 66 08 98  
fax: +49(0)40-75 66 08 99**

**eMail: info@wilmers.com  
www.wilmers.com**