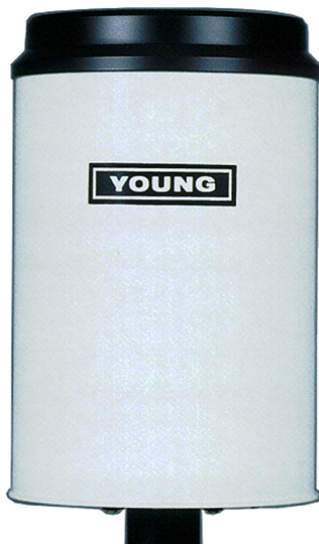


## Precipitation Sensor *standard*



### Description

Rugged and very accurate 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 0.1 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.

A bull-eye enables easy installation and adjustment of the sensor.

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

A built-in electrical heating allows the sensor to measure the moisture content of snowfall and protects the internal components from freezing rain.

### Technical Data

#### Sensor

Sensing element.....	Tipping bucket
Transducer.....	Magnetic reed switch
Output signal .....	Potential-free contact closure
Resolution .....	0.1 mm precipitation per count
Accuracy .....	0..25 mm/h $\pm (1\% \pm 1 \text{ count})$
	> 25 mm/h $\pm (3\% \pm 1 \text{ count})$
Catchment area.....	200 cm <sup>2</sup>

#### Power Supply

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

#### Heating

Heating power .....	30 W
Supply voltage .....	24 VAC, an adaptor for 250 VAC mains power is supplied with the sensor.

## Casing

Material.....	Coated aluminium / plastic
Weight .....	1 kg
Mounting .....	The sensor mounts on a standard one inch pipe with ø34 mm external diameter. A built-in bull-eye level indicator enables accurate adjustment of the sensor.

## Electrical Connection

Cable.....	2 x 0.5 mm <sup>2</sup>
Terminals.....	Open wires

## Wiring

white.....	(+) reed switch
brown .....	(-) reed switch
yellow/green .....	Cable shield (optional)

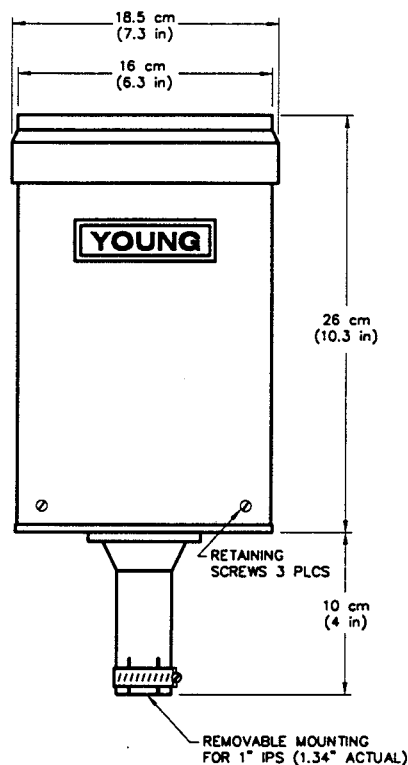
## Environmental Conditions

Operating temperature .....	-20..+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).

## Dimensions



**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**