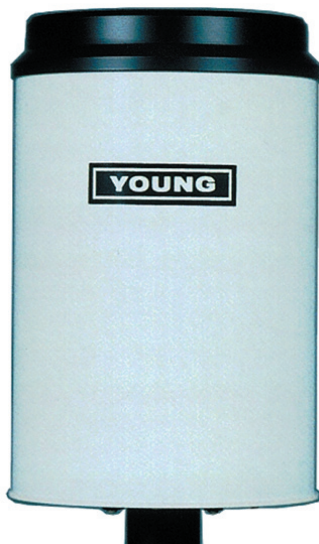


Precipitation Sensor *standard*



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).

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	± (1% ± 1 count)
	> 25 mm/h	± (3% ± 1 count)
Catchment area.....	200 cm ²	

Power Supply

Type..... not required

Heating

Type..... no heating

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 ²
Terminals.....	wire end sleeves

Wiring

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

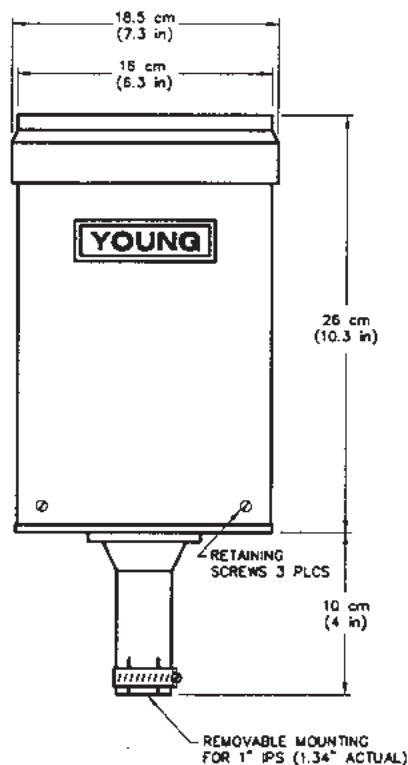
Environmental Conditions

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




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