

Precipitation SensorThies

The instrument is designed to measure the height, quantity and the intensity of the precipitation striking the surface of the earth.



Description

The Thies Precipitation Monitor transmits signals to determine the beginning and end of precipitation as well as the duration of the period of precipitation.

Specifications

Charateristic	Decription / Value
Collector surface	200 cm ²
Resolution	0.1 mm per tipping-bucket pulse
Measuring range	0 ...11 mm/min
Accuracy output 1 within the range of 0 ... 11 mm/min	±3 % (tested under laboratory conditions with distilled water)
Measuring principle	tipping-bucket
Ambient temperature	0 ... +60 °C (without heating), -25 ... +60 °C (with heating)
Output signal 1 (Reed contact with linearization)	
Pulse length	125 ms
Tipping-bucket frequency	0 ... 2 Hz
Operating voltage	5 VDC
Output signal 2	
Pulse length	50 ms
Pulse frequency	0 ... 2 Hz
Contact load	max. 0.5 W
Contact voltage (Vcc)	max. 42 V
Heating	24 VAC/DC; 48.5 W
Montage	onto mast tube Ø 50 mm

Charateristic	Decription / Value
Weight	3.3 kg
Manufacturer	Thies
Accessories	Module M83200 or M83570

Sensor connection diagram

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