

## Tipping rain gauge

Instrument name: Gauge

Instrument type: 5.4032.30

Manufacturer: Thies

Location: Institute for Geoscience, Section Meteorology, Bonn

Coordinates: Lat: 50.731233° N, Lon: 7.070733° E, Alt: 66 m asl

The Thies rain gauge is a precipitation measurement instrument using a tipping bucket for estimating liquid precipitation.

The gauge is installed in the back yard of the Section Meteorology, Institute for Geoscience, University of Bonn, Bonn, next to an additional precipitation gauge (Pluvio-01) and operates since 2001.

### Instrument specifications

Parameter	Specification
Operation temperature range	0°C - +60 °C
Weight	3.1 kg
Maximum intensity	7 mm/min
Resolution	0.1 mm/impulse
Detection area	200 cm <sup>2</sup>
Electrical signal	1 impulse = 0.1 mm
Power	Max. 0.5 W, Vcc: max. 42 V DC

### Instrument time-line

01/01/2001 – today

At backyard of Section Meteorology, Institute for Geoscience,  
University of Bonn, Bonn

### Available measurement modes

- 1 min measurement at fixed location
- Additional precipitation measurements can be requested

### JOYCE-CF Standard Operation Procedures

- Continuous operation in 1 min interval at fixed location in Bonn

## Data quality assurance procedures

- Raw data provided by the instrument. Quality control by operator.

## Available datasets

Data can be requested via the 'Messdatenportal' (<https://www.ifgeo.uni-bonn.de/abteilungen/meteorologie/messdaten/messdatenportal>).

Additional data, measurement time, or instrumentation can be requested via the JOYCE-CF request sheets.

### Level 1

- Precipitation amount in mm:
  - Temporal resolution: 1 min
  - CSV download as requested
  - File size approx. 100 kB per day

## Contact

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