

# WP2 - Leuven

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- **Guidelines for rain gauge measurements in urban areas**

- **Outline:**

INTRODUCTION

1. Different types of rain gauges
2. Installation - location and surroundings
3. Calibration
4. Data retrieval
5. Maintenance

+ Main error sources

+ WMO publications



- **Introduction**
- **Different types of rain gauges**
  - Non recording, Tipping bucket, Weighting, Optical, Acoustical, ...
- **Installation - location and surroundings**
  - A description of the optimal location and surroundings of the gauge
  - Clear open space – 45° 'open' air, Wind screen?
  - Height of the gauge: Splash effect on surface versus wind effects
  - Power – battery or net current



- **Calibration**
  - Static calibration, Dynamic calibration (for tipping bucket rain gauges → document L C Decloedt)
- **Data retrieval**
  - Data logging, Data transfer (daily, hourly, real time, ...)
- **Maintenance**
- **Conclusion**

