

TIPPING BUCKET RAIN GAUGE

RG400 / RG400-H



- High-precision, highly reliable tipping bucket rain gauge
- Robust aluminium enclosure for durability in all environments
- Advanced metal 3D-printed siphon ensures exceptional accuracy across a wide range of rainfall intensities

Applications

- Meteorological and climatological rainfall measurement
- Roadside and highway weather stations
- Hydrological monitoring and flood early warning systems
- Agrometeorological research and applications

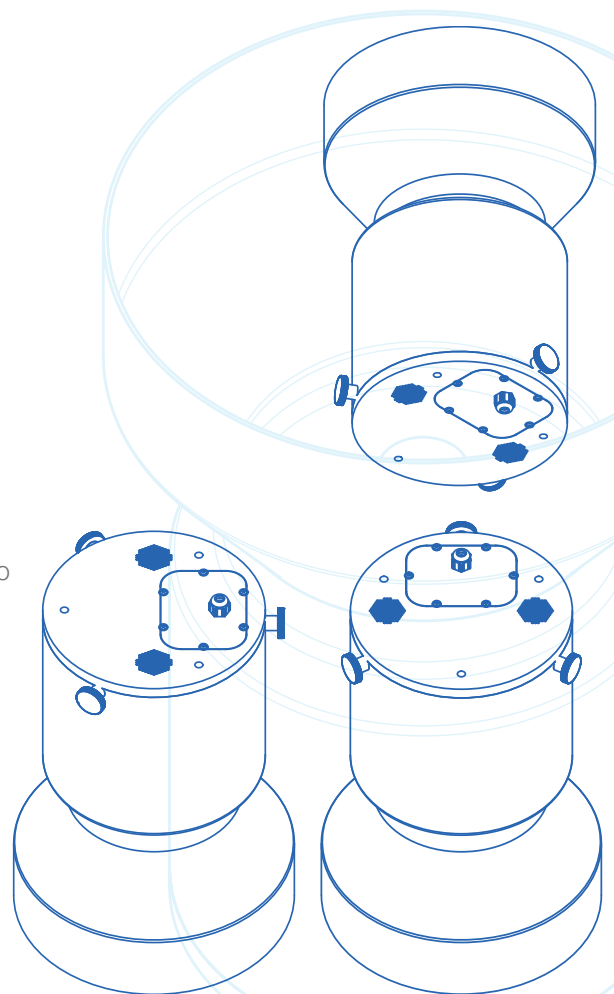
Product Description

The Geolux RG400 is a precision-engineered tipping bucket rain gauge, designed for long-term reliability and accuracy in demanding environments.

A specially developed siphon regulates water flow to the tipping mechanism, ensuring consistent performance across both low and high rainfall intensities. Unlike conventional designs, the RG400's siphon is manufactured as a single-piece metal component using advanced 3D printing technology, using optimized internal hydraulic chambers that deliver unmatched measurement precision.

For operation in cold climates and snowy conditions, the rain gauge can be equipped with optional heaters ranging from 18 W to 100 W. An integrated power management system with a voltage upconverter supports a wide supply voltage range of 9 to 27 V.

The tipping mechanism is equipped with a dual reed switch output. This allows easy integration with dual dataloggers or pulse-counting systems. Collected water is drained through dual orifices at the base of the instrument.



RG400

Detailed Specifications

Model Name	RG400 / RG400-H
Collection Area	400 cm ²
Resolution (rainfall per tip)	0.1 mm
Accuracy	0 to 250 mm per hour ± 2% 250 to 500 mm per hour ± 3% 500 to 700 mm per hour ± 4%
Measurement Range	0 – 700 mm/h
Siphon	Yes, single-piece aluminium
Leveling unit	Air-bubble indicator
Enclosure Material	Anodized aluminium
Output interface	2x Reed-switch pulse
Connector	M12 circular 12-pin
Heater*	18W 25W 50W 75W 100W
Heater Input Voltage*	9 – 27 VDC
Operating Temperature Range	-40 °C to +85 °C
Operating Humidity Range	0 – 100 % RH
Enclosure Dimensions	Φ227mm x H 339 mm

* The heaters are only available on the RG400-H models

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MADE IN **EU**

