



Rain Gauge Measurement Systems

Rain Gauges and Data Logger

- Tipping Bucket and Weighing Systems
- High precision rain gauge with impulse output (0.1 mm or 0.2 mm)
- Longterm Stability
- Digital data recording of precipitation impulses via rain data logger UnilogLight
- Optional: bird protection ring and/or heating system with temperature control
- Optional: elemetric data transmission via GSM/GPRS or satellite (e.g. Iridium)



RG 50 - Tipping Bucket Rain Gauge

High precision rain gauge system with impulse output. Suitable for connection to automatic data loggers (e.g. UnilogLight) and telemetric transmission systems (GSM/GPRS, satellite). Tipping bucket with single sided ball bearings, level and adjusting screw.

For the installation in areas with a risk of frost, the rain gauge can optionally be equipped with a funnel heating system.

Housing:	Aluminium, coated
Orifice, collecting area:	200 cm ² , 400 cm ² (optional)
Resolution:	1 impulse = 0.1 mm precipitation or 1 impulse = 0.2 mm precipitation
Funnel Heating System:	15 W, 24 V, switching point +4 °C, switching hysteresis +3 °C
Switching capacity:	3 W
Direct current voltage:	150 V
Circuit DC:	0.25 A



Tipping Bucket System

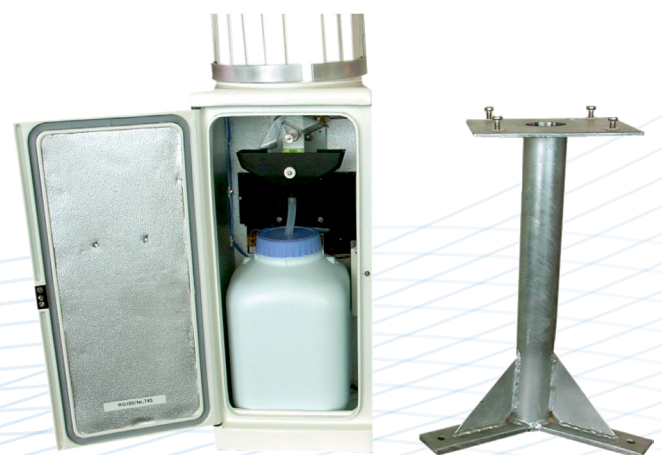
Output:	Reed contact impulse (potential free contact)
Tipping bucket:	Plastic material (heavy duty)
Dimensions:	Height 346 mm, Diameter 205 mm
Weight:	3.9 kg

RG 100 - Tipping Bucket Rain Gauge System

The SEBA rain gauge system RG 100 offers a compact design which combines the protection housing and funnel system into one unit.

The special aluminum lockable protection housing can contain the tipping bucket, data logger (UnilogLight, UnilogCom), modem (GSM/GPRS, satellite), power supply and if desired a collecting bottle.

Collecting Area:	200 cm ² , 400 cm ² or 500 cm ²
Recording Time:	depends on selected data logger type (UnilogLight, UnilogCom)
Output:	Impulse, potential free
Resolution:	1 impulse = 0.1 mm precipitation or 1 impulse = 0.2 mm precipitation
Collecting bottle:	5 liters, plastic material
Funnel:	(DIN 58667) plastic, 200 cm ³ = 10 mm precipitation



Dimensions:	(height, width, depth) 620 x 225 x 285 mm
Weight:	13 kg

TRW - Weighing Rain Gauge System

The total rain weighing sensor type TRW is suitable for all types of precipitation: liquid, solid or mixed.

Collecting area:	200 cm²	500 cm²	200 cm²	400 cm²
Range of precipitation:	750 mm	250 mm	1500 mm	750 mm
Dimensions (mm):	Ø 360 x 540	Ø 360 x 380	Ø 385 x 650	Ø 385 x 610
Weight:	8 kg	8 kg	9.5 kg	9.5 kg
Accuracy absolute:	± 0.1 %			
Accuracy relative:	± 1%			
Max. rain intensity:	120 mm/min			
Resolution:	0,001 mm/0.01 mm			
Serial interface:	SDI-12			
Impuls output:	1; 0,1; 0.01 mm			
Humidity:	0-100 %			
Power Supply:	5...30 VDC / max 4 mA @ 12 V			
Protection Class:	IP 65			
Power Consumption:	0,4 Ah/day			
Heating:	optional			
Operating Temperature:	-40 °C ... +70 °C (with heating)			
Storage Temperature:	-40 °C ... +70 °C			



Weighing System - TRW 200 / 750



Weighing System - TRW 500 / 250

Data Recording UnilogLight

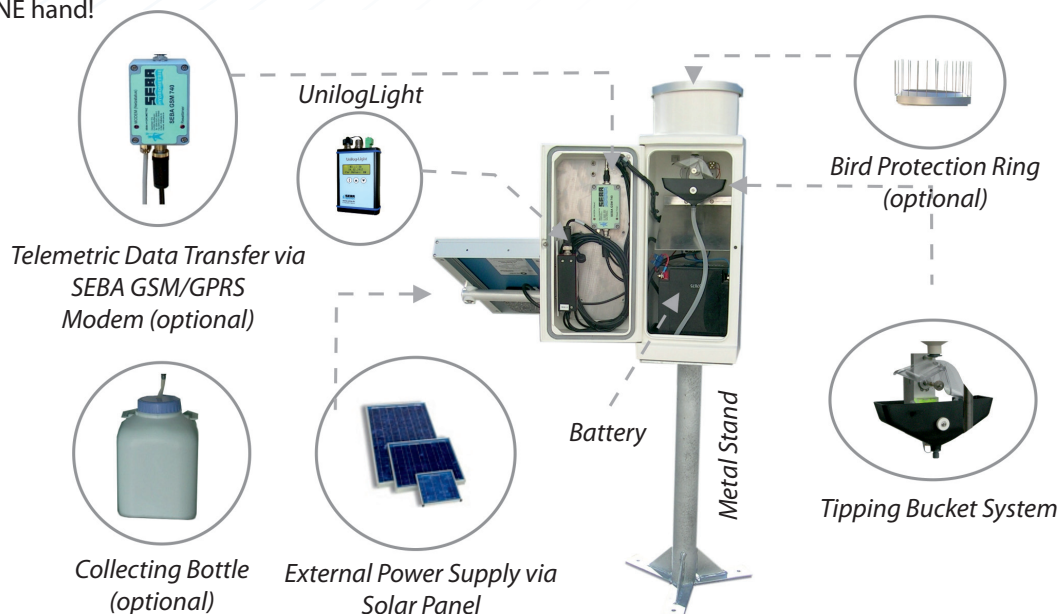
The UnilogLight data logger is characterized by its simple and user-friendly handling, high operation reliability, robust and compact design including a water-tight plastic foil keyboard. This logger serves for digital recording of precipitation tipping bucket impulses associated with date and time.

Technical data see brochure UnilogLight



Complete Rain Gauge Station

SEBA Rain Gauge Station in combination with a data logger and automatic telemetric system: A complete and solid solution out of ONE hand!



A detailed description of our telemetric data transfer solutions are described in a separate SEBA brochure.

Additional Options

Heaters and accessories:

- **Heating system for RG 100:** for heating the internal rain gauge, 2-point control system and thermistor switch, 60 Watt heating power, 24 V power supply
- **Funnel heating system for RG 50 and RG 100:** for de-icing, 15 Watt heating power
- **Ring heating system**
- **Mains adapter:** IP 40, 220 V / 24 VAC / 200 VA for power supply of heating system
- **Mains adaptor:** IP 64, 220 V / 24 VDC / 60 VA power supply suitable for field installations
- **Bird Protection Ring:** prevents any interference of birds sitting or nesting at or inside the rain gauge
- **Tipping Bucket System** for additional or belated installation for data logger or telemetric data transfer. Technical details as in RG 100.

For all types of tipping bucket systems:

- **Impulse/Power-Transducer:** Output 0/4-20 mA = 10 mm precipitation, configurable to 50 - 1,600 impulses, power supply 220 V or 24 V.

For RG 50 / RG 100:

- **2" Metal Stand with flange** - Total height incl. rain gauge: 1,200 mm (1.2 m) for a secured installation of the rain gauge

The right is reserved to change or amend the foregoing technical specification without prior notice.

Contact:

Virtual Hydromet | vhydromet@yahoo.com | +91-9412072697