

Rain Gauge - ADCON RG1

Adcons RG1 rain gauge is an extremely robust and accurate device that is suitable for many applications, from agriculture to hydrographics to general meteorology. The RG1 is available with a resolution of 0,1mm and 0,2mm and orifices of 200cm² and 400cm², making it compliant with all WMO guidelines.

The sensor employs a double tipping bucket assembly measurement unit. Each tipping action triggers a pulse of a debounced reed switch with a life-time of >1 Million pulses. The rain gauge can be connected to any logger with a pulse input.

The body of the rain gauge, the funnel and the protective filter are made of aluminum, with a precision tipping bucket of plastic. The bucket is carefully balanced on precision bearings. A mast mounting bracket is integrated into the body, while floor mountings are optional.

The RG1 is fitted with a 1m cable and 7-pin Binder connector for quick connection to an Adcon RTU. A 5m cable is available as an option.

Applications

- ✓ Weather stations for agriculture and hydrography
- ✓ Industrial rain gauging
- ✓ Municipal use, water and waste water companies

Technical data

Dimensions & Weight of Gauge with 200 cm ²	Ø 162 mm / Height 229 mm / 770 g	Signal output	Pulse signal
of Gauge with 400 cm ²	Ø 237 mm / Height 286 mm / 985 g	Reed Switch	Type: normally open
Material	Aluminum (body); plastic (spoon)	Measuring Principle	Tipping bucket - double spoon
Orifice and Resolution	200cm ² : 0,2mm / 400cm ² : 0,1mm	Connector	M9 7-pin Binder connector
Capacity/hour @ 0,1mm	50mm (100mm w/intensity correction)	Cable length	100cm
Capacity/hour @ 0,2mm	100mm (200mm w/intensity correction)	Mounting	Mast mounting bracket with clamps; for poles with 35 - 45mm in Ø
Accuracy of RG1 with 0,1mm resolution	≤ 25mm/h.: ±1% 25...75mm/h.: ±3% 75...200mm/h.: ±5% w/intensity correction	Ordering Information:	
Accuracy of RG1 with 0,2mm resolution	≤ 50mm/h.: ±1% 50...100mm/h.: ±3% 100...200mm/h.: ±5% w/intensity correction	200.733.049	Adcon RG1 0,2mm 200cm ²
		200.733.048	Adcon RG1 0,1mm 400cm ²
		800.000.225 / .226	Bird protector 200cm ² / 400cm ²



RG1 Rain Gauge Body, 200cm² version



RG1 tipping bucket mechanism