

Rain Gauge Professional V2

The Adcon Professional Rain Gauge V2 is an extremely robust and accurate device, built to meet the needs of professional meteorologists. The Professional Rain Gauge V2 combines high accuracy and low maintenance requirements with full WMO compliance. It is available with 0,1mm and 0,2mm resolution and has an orifice size of 200cm².

Body, funnel and bucket holder of the rain gauge are made of aluminium. The precision tipping bucket is made of stainless steel and employs the Joss-Tonigni measuring method, which provides unrivaled long term accuracy and stability, with very long recalibration intervals. A sealed reed switch, capable of indefinite operation, and solid mechanics ensure that this instrument has an extremely long working life. Heated versions are also available.

The Professional Rain Gauge is fitted with a 5m cable with a 7pin Binder connector for quick connection to an Adcon RTU.

The gauge is compliant with the following standards:
WMO-No. 8; VDI 3786 If. 7, EN 50081/82, VDE 0100

Applications

- Professional weather stations
- Hydrography, hydrometrics, flood warning
- Industrial, municipal, utility rain gauging



Adcon Professional Rain Gauge Body



Tipping bucket mechanism

Technical data

Dimensions	190 mm Ø, 292mm Height	Load	4 .. 30VDC / 0,5A
Weight	3,9 kg	Current draw	max. 100µA, typ. 50µA
Materials used	Most components made of aluminum Tipping bucket: stainless steel	Cable & connector	5m; M9 7-pin male Binder connector
Orifice	200cm ²	Mounting	on poles with 40 - 60mm in Ø
Resolution	0,1mm; 0,2mm	Optional heating:	
Capacity per Minute	max. 30 tips (3 resp. 6mm)	Temperature range	-20°C ... +70°C
Accuracy	± 1% @ 10 tips/min (1 resp. 2mm) ± 2% @ 30 tips/min (3 resp. 6mm) ± 2% with intensity correction	Activation	at 4°C ± 2°C from -20°C ...+4°C
Measuring Principle	Weighing tipping bucket - double spoon acc. to Joss-Tonigni	Heating power	150W
Signal output	- Pulse signal direct - Pulse signal debounced	Power supply	24VDC
Reed Switch	Type: normally open	Ordering Information	
		200.733.063	Adcon Professional V2 0,1mm
		200.733.064	Adcon Professional V2 0,2mm
		200.733.067	Adcon Professional V2 0,1mm heated
		200.733.068	Adcon Professional V2 0,2mm heated