

Rain Gauge Professional

The Adcon Professional Rain Gauge is an extremely robust and accurate device, built to meet the needs of professional meteorologists. The Professional Rain Gauge 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 lf. 7, EN 50081/82, VDE 0100. Upon request a multi-intensity calibration certificate for each rain gauge is also available.

Applications

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

Technical data

Dimensions	190 mm Ø, 292mm Height
Weight	3,9 kg
Materials used	Body, base, frame: aluminum Tipping bucket: stainless steel
Orifice	200cm ²
Resolution	0,1mm; 0,2mm
Capacity per Min.	max. 30 tips (3 resp. 6mm)
Accuracy	±1% @ 10 tips/min (1 resp. 2mm) ±2% @ 30 tips/min (3 resp. 6mm) ±2% @ up to 250mm/h with intensity correction (on both resolutions)
Measuring Principle	Weighing tipping bucket - double spoon according to Joss-Tonigni
Signal output	Pulse signal direct
Reed Switch	Type: normally open

Load	4 .. 30VDC / 0,5A
Current draw	max. 100µA, typ. 50µA
Cable & connector	5m; M9 7-pin m Binder connector
Mounting	on poles with 40 - 60mm in Ø
Optional heating:	
Temperature range	-20°C ... +70°C
Activation	at 4°C ± 2°C from -20°C ...+4°C
Heating power	150W
Power supply	24VDC
Ordering Information:	
200.733.063	Adcon Professional 0,1mm
200.733.064	Adcon Professional 0,2mm
200.733.067	Adcon Professional 0,1mm heated
200.733.068	Adcon Professional 0,2mm heated



Adcon Professional Rain Gauge Body



Tipping bucket mechanism