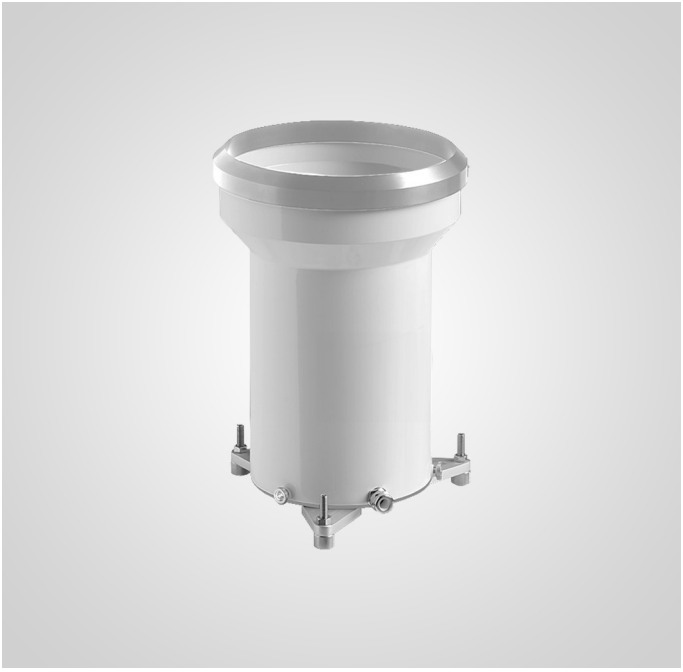
MIS201

Tipping Bucket Rain Gauge

MIS201 is our solution for precise rain measurement in any weather condition. Reliability, accuracy and durability. That is the basic thought behind the design of the MIS201. Crafted with unbeatable durability, this tipping bucket rain gauge is meticulously constructed from corrosion-resistant materials, ensuring it withstands the test of time.



Water, Snow, Ice - We Measure It All
Versions with heating to measure all kind of precipitations

Accurate and Reliable
Individual calibration. Internal leveling device for perfect horizontal positioning

WMO Compliant
Developed and designed according to WMO guidelines.

Smart design - Long Stability Performance
Corrosion resistance materials Rugged design

Specifications

Principle	Tipping bucket
Precipitation type	Liquid, mixed* , solid* (*with heating)
Collector diameter	224 mm
Optional outputs	Analog 4...20 mA Analog 0...10 V Digital SDI-12
Power supply	
analog output	7...30 Vdc (4...20 mA) / 13...30 Vdc (0...10 V)
SDI-12	7...30 Vdc
Consumption	
analog output	26 mA max. @ 18 Vdc (4...20 mA) ≈ 4 mA @ 18 Vdc (0...10 V)
SDI-12	≈ 100 µA @ 18 Vdc
Resolution	0.1 - 0.2 or 0.5 mm/tip
Accuracy**	< ± 2 % (using correction curves)
Maximum rainfall rate	600 mm/h (0.1 and 0.2 res. versions) 1000 mm/h (0.5 res. version)
Operating temperature	
without heating	0 °C...+70 °C
with heating	-20 °C...+70 °C (heating intervention temperature +4 °C)

Protection degree	IP 64
Minimum section of the wires of the connecting cable	
without heating	0.5 mm^2
with heating	2.5 mm^2

***If the amount of rain is calculated using the correction curve as a function of the rainfall rate, the error is typically less than ± 2% in the interval 0…200 mm/h. If the HD2013-DB data logger is used, the measurement can be automatically corrected according to to the graphs available in the instrument's operating manual. With the analog and SDI-12 output options, the curve can be stored in the rain gauge itself.*