

**rain[e] WEIGHING PRECIPITATION SENSOR**



The first of a new kind with astonishing resolution and precision

rain[e] is a new type of weighing precipitation sensor: Highest resolution combined with the most compact design. The unique self-emptying collection system enables the measurement of every single drop with the high resolution of 0.001 mm/m<sup>2</sup>. Full functionality all year around without antifreeze fluid makes the rain[e] very environmentally friendly.

rain[e] is easy to lift, transport, install and maintain. The small packing volume and the low weight ensure minimum logistical effort. The rain[e] series is compatible with OTT and Campbell Scientific data loggers and ideal for setup and expansion of rainfall measurement networks.

- Astonishing resolution and accuracy
- Checking of sensors with tipping bucket and other weighing systems
- Compact and robust construction with a very low weight
- All-metal housing, weatherproof and durable
- Best connectivity by several interfaces
- Easy to install and maintain
- Also with Modbus or customised protocols

**APPLICATIONS**

- Classical meteorology and hydrology
- Weather services
- Measuring networks of water suppliers
- Lysimeter systems
- Sewage plants
- Airports
- Traffic meteorology

Professional Line	rain[e]
Id-No.	00.15184.000000 rain[e], unheated 00.15184.400000 rain[e], heated
Measuring range	Without limitation (0.005... ∞ mm)
Amount of accuracy	Typically ± 0.1 mm or 1 %
Amount of Resolution	0.001 mm

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Professional Line	rain[e]
Intensity range	0...20 mm/min resp. 0...1200 mm/h
Intensity of resolution	0.001 mm/min resp. 0.001 mm/h
Output	SDI-12; RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol) Modbus RTU 2 Pulse-Outputs for linearised, bounce-free output signal Status-Output (configurable, e.g. rain yes/no or heating on/off) Analogue output 0/4...20 mA (0...2.5/5 V)
Collection surface	200 cm <sup>2</sup>
Environmental conditions	0...+70 °C (unheated); -40...70 °C (heated, no icing, no snow blowing)
Supply voltage	Unheated: 9.8...32 VDC Heated: 24 VDC / 2 heating circuits: 80 W (funnel) and 60 W (outlet / tipping bucket)
Power consumption	Max. 45 mA at 24 V power supply and analogue output Typically 7.5 mA at 24 V power supply and deactivated analog output Typically 12.5 mA at 12 V
Target temperature (heating)	+2 °C funnel surface temperature
Measuring principle	Weighing with automatic self emptying
Design	Mounting mast Ø 60 mm
Dimensions	292 mm x 190 mm (H x D)
Protection class	IP67
Weight	Approx. 2.5 kg
Standards	WMO-No. 8; VDI 3786 Bl. 7; EN 61000-2, -4; EN 61000-4-2, -3, -4, -5, -6, -11; NAMUR NE-21
Accessories (order separately)	00.15091.500XXX Windshield according to Tretyakov for measuring height 1 m, 1.5 m and 2 m 32.15180.023020 bird defense ring 32.15184.060000 sensor cable, 10 m, 8 pole, M12 plug 32.15184.061000 Power supply cable for sensor heating, 1 m

As of: 04.03.2025