PRODUCT OVERVIEW

rain[e] Weighing precipitation sensor

POSSIBLE APPLICATIONS

- Classical meteorology and hydrology
- Weather services
- Water management monitoring networks
- Lysimeter systems
- Sewage treatment plants
- Airports
- Traffic meteorology

The first of its kind with amazing resolution and precision

rain[e] is a new type of precipitation sensor: maximum resolution combined with a very compact design. The unique self-emptying collection system enables every single drop to be measured. The rain[e] can be operated all year round without antifreeze, making it particularly environmentally friendly.

rain[e] is easy to lift, transport, install, and maintain. Its small pack volume and low weight ensure minimal logistical effort. The rain[e] series is compatible with data loggers from OTT and Campbell Scientific and is ideal for setting up and expanding precipitation measurement networks.

- Amazing resolution and precision
- Verification of precipitation sensors with tipping bucket and other weighing systems
- Compact and robust design with very low weight
- All-metal housing, weatherproof and durable
- Best connectivity thanks to a wide range of interfaces
- Easy installation and maintenance
- Also with Modbus or customer-specific protocols

PRODUCT OVERVIEW

rain[e] Weighing precipitation sensor

Professional Line	rain[e]
Ident-No.	00.15184.000000 rain[e], unheated 00.15184.400000 rain[e], heated
Measuring ranges	Without limitation (0.005... ∞ mm)
Amount Accuracy	Typically ± 0.1 mm or ± 1%
Amount of dissolution	0.001 mm
Intensity Range	0...20 mm/min or 0...1200 mm/h
Intensity Resolution	0.001 mm/min or 0.001 mm/h
Output	SDI-12; RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol) Modbus RTU 2 pulse outputs for linearized, debounced output signal Status output (configurable, e.g., rain on/off or heating on/off) Analog output 0/4...20 mA (0...2.5/5 V)
Collection area	200 cm^2
Ambient conditions	0...+70 °C (unheated); -40...70 °C (heated, no icing, no snow drifts)
Supply voltage	Unheated: 9.8...32 VDC Heated: 24 VDC / 2 heating circuits: 80 W (hopper) and 60 W (outlet / tipping bucket)
Power consumption	Max. 45 mA at 24 V supply voltage and analog output Typically 7.5 mA at 24 V supply voltage and analog output disabled Typically 12.5 mA at 12 V
Target temperature (heating)	+2 °C Surface temperature of hopper
Measuring principle	Weighing, with automatic self-emptying
Structure	Mounting mast Ø 60 mm
Dimensions	292 mm x 190 mm (H x D)
Protection class	IP67
Weight	Approx. 2.5 kg
Material	Housing: Aluminum, anodized, painted white Funnel: Aluminum, anodized Base: Cast aluminum, painted Collection vessel: Aluminum, black anodized
Standards and norms	WMO No. 8; VDI 3786 Sheet 7; EN 61000-2, -4; EN 61000-4-2, -3, -4, -5, -6, -11; NAMUR NE-21
Accessories (order separately)	00.15091.500XXX Tretjakov-style wind shield for measurement heights of 1 m, 1.5 m, and 2 m 32.15180.023020 Bird deterrent ring 32.15184.060000 Sensor cable, 10 m, 8-pin, M12 connector 32.15184.061000 Power connection cable for sensor heating, 1 m

As of October 14, 2026