

rain[e]LP

WEIGHING PRECIPITATION SENSOR



Energy-efficient solution for precipitation measurement

rain[e] is a new type of weighing precipitation sensor: highest resolution combined with a very compact design. In the Low Power (LP) version, the sensor is ideal for solar or battery-operated applications. The unique self-emptying collection system allows for the measurement of every single drop with a high resolution of 0.001 mm/m². The rain[e]LP is easy to lift, transport, install, and maintain. Its small packing 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 establishing and expanding rainfall measurement networks.

- Amazing resolution and precision
- Verification of precipitation sensors with tipping bucket and other weighing systems
- Compact and rugged design with very light weight
- All-metal housing, weatherproof and durable
- Easy installation and maintenance

APPLICATIONS

- Agricultural meteorology
- Traffic meteorology
- Measuring networks of water utilities
- Wastewater treatment plants

Professional Line	rain[e]LP
Id-No.	00.15184.010000
Measuring range	Without limitation (0.005... ∞ mm)
Amount of accuracy	± 0.1 mm or 1 % at < 6 mm/min; ± 2 % at ≥ 6 mm/min
Amount of Resolution	0.001 mm (pulse output: 0.01 mm)
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; 1 Pulse-Output for linearised, bounce-free output signal

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Collection surface	200 cm ²
Environmental conditions	0...+70 °C
Supply voltage	9.8...32 V DC
Power consumption	Typically 6.9 mA at 12 V power supply
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 (load cell)
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 32.14581.060000 Sensor cable, 10 m, 5 pole

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