

rain[e]LP

WEIGHING PRECIPITATION SENSOR



Minimum energy consumption

rain[e] is a new type of weighing precipitation sensor: Highest resolution combined with the most compact design. The Low Power (LP) version of the sensor is the ideal choice for solar or battery powered applications. The unique self-emptying collection system enables the measurement of every single drop with the high resolution of 0.001 mm/m². Full functionality all year around without antifreeze fluid makes the rain[e] very environmentally friendly.

rain[e]LP 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.

- amazing 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
- installation and maintenance are very simple

APPLICATIONS

- agricultural monitoring networks
- traffic meteorology
- measuring networks of water utilities
- sewage treatment plants

| Professional Line | rain[e]LP Weighing precipitation sensor |
|-------------------------|---|
| 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 | typ. 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) | 32.05005.001500 sensor cable, 15 m, 5-pol. M12-plug F 00.15091.600XXX Windshield according to Tretyakov for measuring height 1 m, 1.5 m and 2 m 32.15180.021010 bird defense ring |

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