

## rain[e]one

## WEIGHING PRECIPITATION SENSOR



The entry-level model in the rain[e] series

The reasonably priced rain[e]one stands out due to its first-class, proven quality and equipment as in the premium class of the rain[e] series. Only the technical data (amount and intensity of all precipitation) differ slightly.

The latest weighing technology in a very small design combined with a self-emptying collecting system also allows the rain[e]one an excellent resolution and accuracy.

The rain[e]one is ideal to setup new measurement network as well as addition to an existing rainfall measurement network. The Modbus RTU interface simplifies sensor installation and integration into networks.

- Amazing resolution and accuracy
- Compact design, very low weight
- Weatherproof all-metal housing
- Best connectivity by several interfaces
- Installation and maintenance are very simple

## APPLICATIONS

- Meteorology and hydrology
- Measuring networks of water management
- Lysimeter plants
- Wastewater treatment plants
- Airports
- Traffic meteorology

Professional Line	rain[e]one
Id-No.	00.15184.000001 rain[e]one, unheated · 00.15184.400001 rain[e]one, heated
Measuring range	without limitation (0.005...∞ mm)
Accuracy	± 0.1 mm or ±1% at 6 mm/min and ± 2% at ≥ 6 mm/min
Amount of accuracy	0.1 mm or 2 %
Amount of Resolution	0.001 mm (pulse output: 0.01 mm)
Intensity range	0...10 mm/min resp. 0...600 mm/h
Intensity of resolution	0.001 mm/min resp. 0.001 mm/h

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Professional Line	rain[e]one
Output	<ul style="list-style-type: none"> <li>• SDI-12 • RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol)</li> <li>• 2 Pulse-Outputs for linearised, bounce-free output signal</li> <li>• Status-Output (configurable, e.g. rain yes/no or heating on/off)</li> <li>• Analogue output 0/4...20 mA (0...2.5/5 V)</li> </ul>
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 • typ. 7.5 mA at 24 V power supply and deactivated analog output • typ. 12.5 mA at 12 V
Target temperature (heating)	+2 °C funnel surface temperature
Measuring principle	weighing with automatic self emptying
Dimensions	292 mm x 190 mm (H x D)
Protection class	IP67
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 65.53090.160100 USB cable for sensor configuration

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