

rain[e]one Modbus **WEIGHING PRECIPITATION SENSOR**



Ready for your Modbus RTU system

Latest weighing technology combined with a self-emptying collecting system allows the rain[e]one Modbus a high resolution and high precision at a very small construction volume. Already the first drop will be measured!

The weighing precipitation sensor is preconfigured for easy integration into your Modbus RTU system. This simplifies the installation work enormously.

- Amazing resolution and accuracy
- Compact and robust construction with a very low weight
- All-metal housing, weatherproof and durable
- Installation and maintenance are very simple

**APPLICATIONS**

- Industrial applications
- SCADA systems
- Large-scale photovoltaic systems
- Power grids

| Professional Line       | rain[e]one Modbus  |
|-------------------------|--|
| Id-No.                  | 00.15184.000101 rain[e]one Modbus, unheated · 00.15184.400101 rain[e]one, heated |
| Measuring range         | without limitation (0.005...∞ mm)  |
| 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   |
| Accuracy intensity      | ± 0.1 mm/min • resp. ± 6 mm/h  |
| Intensity of resolution | 0.001 mm/min resp. 0.001 mm/h  |
| Output                  | Modbus RTU   |

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| Professional Line              | rain[e]one Modbus  |
|--------------------------------|--|
| Collection surface             | 200 cm <sup>2</sup>  |
| Environmental conditions       | 0...+70 °C (unheated) • -40...+70 °C (no icing, no snowdri   |
| Supply voltage                 | 9.8 ... 32 V DC<br>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<br>typ. 7.5 mA at 24 V power supply and deactivated analog output<br>typ. 12.5 mA at 12 V  |
| Target temperature (heating)   | +2 °C funnel surface temperature   |
| Measuring principle            | weighing with automatic self emptying  |
| Heating data                   | Target temperature: +2 °C funnel surface temperature • 80 W (funnel) • 60 W (outlet/ tipping bucket)   |
| 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<br>32.15180.023020 bird defense ring<br>32.14567.060010 sensor cable, 15 m, 4 pole, M12 plug<br>32.14567.060000 sensor cable, 12 m, 4 pole, M12 plug<br>32.15184.061000 Power supply cable for sensor heating, 1 m |

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