

AN **aem** BRAND

## rain[e]400 WEIGHING PRECIPITATION SENSOR











With larger collection surface

Latest weighing technology combined with a self-emptying precision tipping bucket allows the rain[e]400 a high resolution and high precision at a very small construction volume.

Already the first drop will be measured! The rain[e] is ideal to setup new measurement network as well as addition to an existing rainfall measurement network.

- · 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
- · Best connectivity by several interfaces
- · Installation and maintenance are very simple

## **APPLICATIONS**

- · Classical meteorology and hydrology
- · Weather services
- · Measuring networks of water management
- · Lysimeter plants
- · Wastewater treatment plants
- · Airports
- · Traffic meteorology

| Professional Line       | rain[e]400   |
|-------------------------|--|
| ld-No.                  | 00.15184.004000 rain[e]400, unheated · 00.15184.404000 rain[e]400, heated  |
| Measuring range         | without limitation (0.0025 ∞ mm)   |
| Amount of accuracy      | ± 0.1 mm or ± 1 % at 3 mm/min and ± 2 % at ≥ 3 mm/min  |
| Amount of Resolution    | 0.001 mm (pulse output: 0.01 mm)   |
| Intensity range         | 010 mm/min resp. 0600 mm/h   |
| Intensity of resolution | 0.001 mm/min resp. 0.001 mm/h  |
| Output                  | <ul> <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 0/420 mA (02.5/5 V)</li> </ul> |

Continued on page 2





| Professional Line              | rain[e]400   |
|--------------------------------|--|
| Collection surface             | 400 cm <sup>2</sup>  |
| Environmental conditions       | 0+70 °C (unheated), -4070 °C (heated, no icing, no snowdrift)  |
| Supply voltage                 | unheated: 9.8 32 VDC<br>heated: 24VDC / 2 heating circuits 150 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  |
| Design                         | mounting mast Ø 60 mm  |
| Dimensions                     | 311 mm x 256 mm (H x D)  |
| Protection class               | IP67   |
| Weight                         | approx. 4 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 32.15180.022040 bird defense ring for rain[e]400 32.15184.060000 sensor cable, 10 m, 8 pole, M12 plug 32.15184.061000 Power supply cable for sensor heating, 1 m |

As of: 23.02.2023