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

APPLIED RATIONS
- classical meteorology and hydrology
- measuring networks of water suppliers
- lysimeter systems
- sewage plants
- airports
- traffic meteorology

<table>
<thead>
<tr>
<th>Professional Line</th>
<th>rain[e]one Weighing precipitation sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id-No.</td>
<td>00.15184.000001 rain[e]one, unheated - 00.15184.400001 rain[e]one, heated</td>
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<tr>
<td>Measuring range</td>
<td>without limitation [0.005...∞ mm]</td>
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<tr>
<td>Accuracy</td>
<td>± 0.1 mm or ±1% at &lt; 6 mm/min and ± 2% at ≥ 6 mm/min</td>
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<tr>
<td>Amount of accuracy</td>
<td>0.1 mm or 2 %</td>
</tr>
<tr>
<td>Amount of Resolution</td>
<td>0.001 mm [pulse output: 0.01 mm]</td>
</tr>
<tr>
<td>Intensity range</td>
<td>0...10 mm/min resp. 0...600 mm/h</td>
</tr>
<tr>
<td>Intensity of resolution</td>
<td>0.001 mm/min resp. 0.001 mm/h</td>
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</tbody>
</table>

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### Professional Line  
#### rain[e]one Weighing precipitation sensor

| **Output** | • SDI-12 • RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol)  
|            | • 2 Pulse-Outputs for linearised, bounce-free output signal  
|            | • Status-Output (configurable, e.g. rain yes/no or heating on/off)  
| Collection surface | 200 cm²  
| **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)** | 00.15091.600XXX Windshield according to Tretyakov for measuring height 1 m, 1.5 m and 2 m  
|            | 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  

As of: 03.10.2020