



# PRECIPITATION SENSOR "rain[e]"

## Weighing precipitation sensor

# rain[e]



The first of a new kind.

Latest weighing technology combined with a self-emptying precision tipping bucket allows the rain[e] 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

classical meteorology and hydrology

- measuring networks of water suppliers
- lysimeter systems
- sewage plants
- Weather services
- airports
- traffic meteorology

### Professional Line

### rain[e] Weighing precipitation sensor

#### rain[e], unheated

Measuring principle:  
 Operating temperature:  
 Collecting area:  
 Amount measuring range:  
 Amount resolution:  
 Amount accuracy:  
 Intensity range:  
 Intensity resolution:  
 Intensity accuracy:  
 Standards:

**Id-No. 00.15184.000 000**  
 weighing with automatic self emptying  
 0...+70 °C (unheated)  
 200 cm<sup>2</sup>  
 without limitation (0.005...∞ mm)  
 0.001 mm (pulse output: 0.01 mm)  
 ± 0.1 mm or ± 1 % at < 6 mm/min and ± 2 % at > 6 mm/min  
 0...20 mm/min resp. 0...1200 mm/h  
 0.001 mm/min resp. 0.001 mm/h  
 ± 0.1 mm/min resp. ± 6 mm/h  
 WMO-No. 8 • VDI 3786 Bl. 7 • EN 61000-2, -4 • EN 61000-4-2, -3, -4, -5, -6, -11  
 NAMUR NE-21

Protection class weighing cell:  
 Current consumption:

IP67  
 max. 45 mA at 24 V power supply and analogue output •  
 typ. 6.5 mA at 24 V power supply and pulse output · typ. 10.5 mA at 12 V  
 9.8...32 V DC

Supply voltage:  
 Signal outputs:

- 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)
- Analogue output 0/4...20 mA (0...2.5/5V)

#### rain[e], heated

Data like rain[e] 00.15184.000 000, but in addition with controlled 2-circuit-heating  
 Target temperature (heating):  
 Heating power:  
 Supply voltage:  
 Operating temperature:

**Id-No. 00.15184.400 000**  
 +2 °C funnel surface temperature  
 80 W (funnel) • 60 W (outlet/ tipping bucket)  
 24 V DC / 2 heating circuits 80 W and 60 W  
 -40...+70 °C (no icing, no snowdrift)