



# PRECIPITATION SENSOR "rain[e]400"

## Weighing precipitation sensor

### rain[e]400 is...

#### ecological

Full functionality all year around without antifreeze fluid makes the rain[e]400 very environmentally friendly.

#### extraordinary

The rain[e]400 is a new type of weighing precipitation sensor. Highest resolution combined with the most compact unique design.

#### exact

The unique self-emptying collection system enables the measurement of every single drop with the high resolution of 0.001 mm/m<sup>2</sup>.

#### efficient

Highest functionality offered in one compact design with 6 different interfaces. It is available with a highly efficient heater with minimised heating current consumption.

#### easy

rain[e]400 is easy to lift, transport, install and maintain.

#### economic

The small packing volume and the low weight ensure minimum logistical effort. The rain[e]400 is up to 50 % cheaper than other weighing precipitation sensors, yet providing similar or improved functionality.



### Professional Line

### Weighing precipitation sensor rain[e]400

#### rain[e]400, unheated

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

#### Id-No. 00.15184.004 000

weighing with automatic self emptying  
0...+70 °C (unheated)  
400 cm<sup>2</sup>  
without limitation (0.0025...∞ mm)  
0.001 mm (pulse output: 0.01 mm)  
± 0.1 mm or ± 1 % at < 3 mm/min and ± 2 % at > 3 mm/min  
0...10 mm/min resp. 0...600 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  
IP67  
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  
9.8...32 VDC  
· 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...2.5/5 V)

Protection class weighing cell:  
Current consumption:

Supply voltage:  
Signal outputs:

#### rain[e]400, heated

Data like rain[e]400 00.15184.004 000, but in addition with controlled 2-circuit-heating  
Target temperature (heating):  
Heating power:  
Supply voltage:  
Operating temperature:

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+2 °C funnel surface temperature  
150 W (funnel) • 60 W (outlet/ tipping bucket)  
24 VDC / 2 heating circuits 150 W and 60 W  
-40...+70 °C (no icing, no snowdrift)