



PRECIPITATION SENSOR "rain[e]"

Weighing precipitation sensor

The first of a new kind

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

The unique self-emptying collection system enables the measurement of every single drop with the high resolution of 0.001 mm/m².

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

rain[e] is easy to lift, transport, install and maintain. The small packing volume and the low weight ensure minimum logistical effort.

The rain[e] series is compatible with OTT and Campbell Scientific data loggers and ideal for setup and expansion of rainfall measurement networks.

- 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], unheated

Measurement principle:

Operating temperature:

Collecting area:

Amount measurement range:

Amount resolution:

Amount accuracy:

Intensity range:

Intensity resolution:

Intensity accuracy:

Standards:

Protection class load cell:

Current consumption:

Supply voltage:

Signal outputs:

Weighing precipitation sensor rain[e]

Id-No. 00.15184.000 000

weighing with automatic self emptying

0...+70 °C (unheated)

200 cm²

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

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 V DC

• 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)

rain[e], heated

Data like rain[e] Id-No. 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)