



PRECIPITATION SENSOR "rain[e]one"

Weighing precipitation sensor

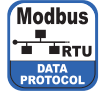
The first of a new kind.

Latest weighing technology combined with a self-emptying collecting system allows the rain[e]one a high resolution and high precision at a very small construction volume. Already the first drop will be measured!

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
- 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]one, 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]one

Id-No. 00.15184.000 001

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 2 %

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. 6.5 mA at 24 V power supply and pulse output · typ. 10.5 mA at 12 V

9.8...32 VDC

· SDI-12 • RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol) • Modbus RTU

· 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]one, heated

Data like rain[e]one 00.15184.000 001, but in addition with controlled 2-circuit-heating

Target temperature (heating):

+2 °C funnel surface temperature

Heating power:

80 W (funnel) • 60 W (outlet/ tipping bucket)

Supply voltage:

24 VDC / 2 heating circuits 80 W and 60 W

Operating temperature:

-40...+70 °C (no icing, no snowdrift)

Accessories:

Id-No. 32.15184.060 000 Cable, M12 plug for connection sensor/data logger; L = 10 m (8-core)

Id-No. 65.53090.160 100 USB cable for sensor configuration