



PRECIPITATION SENSOR

acc. to Joss-Tognini

With success...

the sensor (15188) stands up to any comparison with others in its class.

Modern tipping- and heating technologies guarantee high reliability, precision and minimal evaporation influences.

The system empties itself and registers - overflowing is impossible.

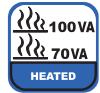
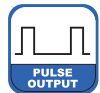
The 4cm³ bucket with large volume has been constructed especially for extreme precipitation incidents,

e. g. tropical rainstorms or longer recording intervals.

- ▶ smooth running tipping bucket bearings
- ▶ high resolution
- ▶ easy installation
- ▶ maintenance-free electronics
- ▶ fine materials

automatic weather stations • classical meteorology and hydrology

- with lysimeters • sewage plants
- building systems • water management/agriculture • forestry



Precision Inside!

- no plastics at measuring parts
- 2- and 4 cm³-volume of bucket
- controlled dual-circuit heating

Professional Line

(15188) Precipitation Sensors

Measuring element:
Meas. range/ Resolution:

weighing tipping bucket · precision stainless steel bucket acc. to Joss-Tognini
2 cm³ (~2 g) volume of bucket · 0.1 mm · 0...10 mm/min
4 cm³ (~4 g) volume of bucket · 0.2 mm · 0...20 mm/min

Accuracy:

± 2 % with intensity compensation · controlled temperature 4 °C ± 2 °C within a range of -20...+4 °C*

Collecting surface:
Range of application:

200 cm²/ WMO standard
operating temperatures 0...+70 °C metering (down to -20 °C frost resistant) · -30...+70 °C* controlled

Data of heating*:

electr. controlled dual-circuit heating · 170 VA total heating energy · 100 VA collecting funnel · 70 VA downpipe/ bucket · supply voltage 42 V_{AC}

Pulse output:

reed contact · polarity protected · bounce-free signal · current consumption max. 100 µA · typical 50 µA · load max. 30 V_{DC}/ 0.5 A · supply voltage 4...30 V_{DC}

Housing/ Funnel + ring:
Dimensions/ Weight:
Standards:

stainless steel · aluminium, anodized
H 395 mm · Ø 190 mm · for mounting pipe with Ø 60 mm · approx. 4 kg
WMO-No. 8 · VDI 3786 page 7 · EN 50081/82 · VDE 0100

Varieties:

00.15188.002 000

(15188)

Precipitation Sensor with 2 cm³-volume of bucket · unheated

00.15188.202 000

(15188 H)*

Precipitation Sensor with 2 cm³-volume of bucket · heating

00.15188.004 000

(15188 W4)

Precipitation Sensor with 4 cm³-volume of bucket · unheated

00.15188.204 000

(15188 HW4)*

Precipitation Sensor with 4 cm³-Volume of bucket · heating

Accessories: (optional)

(95666.1)

TROPOS-100 Data logger (see chapter "Data logger")