



# PRECIPITATION SENSOR

Precipitation measurement acc. to Joss-Tognini manual

## 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 4cm<sup>3</sup> 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 cm<sup>3</sup>-volume of bucket
- controlled dual-circuit heating

Professional Line	(15188)	Precipitation Sensors
Measuring element:		weighing tipping bucket · precision stainless steel bucket acc. to Joss-Tognini
Meas. range/ Resolution:		2 cm <sup>3</sup> - (~2 g) volume of bucket - 0.1 mm · 0...10 mm/min 4 cm <sup>3</sup> - (~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:		200 cm <sup>2</sup> / WMO standard
Range of application:		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 <sub>AC</sub>
Pulse output:		reed contact · polarity protected · bounce-free signal · current consumption max. 100 µA · typical 50 µA · load max. 30 V <sub>DC</sub> / 0.5 A · supply voltage 4...30 V <sub>DC</sub>
Housing/ Funnel + ring:		stainless steel · aluminium, anodized
Dimensions/ Weight:		H 395 mm · Ø 190 mm · for mounting pipe with Ø 60 mm · approx. 4 kg
Standards:		WMO-No. 8 · VDI 3786 page 7 · EN 50081/82 · VDE 0100
Varieties:		
00.15188.002 000	(15188)	Precipitation Sensor with 2 cm <sup>3</sup> -volume of bucket · unheated
00.15188.202 000	(15188 H)*	Precipitation Sensor with 2 cm <sup>3</sup> -volume of bucket · heating
00.15188.004 000	(15188 W4)	Precipitation Sensor with 4 cm <sup>3</sup> -volume of bucket · unheated
00.15188.204 000	(15188 HW4)*	Precipitation Sensor with 4 cm <sup>3</sup> -Volume of bucket · heating
Accessories: (optional)	(95666.1)	TROPOS-100 Data logger (see chapter "Data logger")