



PRECIPITATION SENSOR

acc. to Joss-Tognini

High reliability...

and precision as well as minimal evaporation influences guaranteed by modern tipping- and heating technologies. The system empties itself and registers - overflowing is impossible. The 4 cm³ bucket with large volume has been constructed especially for extreme precipitation incidents, e. g. tropical rainstorms.

- ▶ with linearised impulse output and/ or analog output signal
- ▶ 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 cm ³ - (~2 g) volume of bucket - 0.1 mm · 0...10 mm/min 4 cm ³ - (~4 g) volume of bucket - 0.2 mm · 0...20 mm/min
Accuracy:		± 2 % · controlled temperature 4 °C ± 2 °C within a range of -20...+4 °C*
Collecting surface:		200 cm ² / WMO standard
Ranges of application:		unheated versions: 0...+70 °C metering (frost resistant down to -20 °C) heated versions: -30...+70 °C · no icing · no snowdrift
Analog outputs:		0...20 mA = basic setting · 4...20 mA · 0...5/10 V - selectable current consump. ≤ 40 mA · supply voltage 18...30 VDC · max. load 600 Ω
Pulse output:		for linearised, bounce-free output signal · At deactivated analog output: current consump. max. 100 µA · typical 50 µA · supply voltage 5...30 VDC · switch load max. 30 VDC/ max. 0.5 A - at pure ohm load
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
<u>Versions:</u>		
00.15188.002 050	(15188++)	Precipitation Sensor with 2 cm ³ -volume of bucket · unheated
00.15188.004 050	(15188 W4++)	Precipitation Sensor with 4 cm ³ -volume of bucket · unheated
00.15188.202 050	(15188 H++)*	Precipitation Sensor with 2 cm ³ -volume of bucket · heated
00.15188.204 050	(15188 HW4++)*	Precipitation Sensor with 4 cm ³ -Volume of bucket · heated
Data of heating*:		electr. controlled dual-circuit heating · 170 VA total heating energy · 100 VA collecting funnel · 70 VA downpipe/ bucket · supply voltage 42 VAC
<u>Accessories: (optional)</u>	(95666.1)	TROPOS-100 Data logger (see chapter "Data logger")