

PRECIPITATION SENSOR



manual

Precipitation sensor with weighing tipping bucket according to Joss-Tognini



Grown by experiences...

and equipped with the features and advantages of the proven forerunners is the weighing sensor (15189) the "class winner"! Its functionality meets exactly the demands of the classical meteorology and hydrology as well as the semiprofessional industrial meteorology. The sensor (15189) and its varieties are very efficient and economical investment for a lifetime!

- Best price-performance ratio in its class!
- single device or part of an automatic weather station
- connectable to data logger TROPOS
- very reliable, weighing measuring system
- high-quality materials
- easy installation

classical meteorology and hydrology • agriculture meteorology • measuring networks of water suppliers • lysimeter systems • sewage plants • Weather services • airports

Standard Line	(15189) Precipitation sensors
Meas. principle/ element: Meas. range/ Resolution:	weighing tipping bucket system • precision stainless steel bucket acc. to Joss-Tognini 2 cm ³ - (~2 g) volume of tipping bucket - 0.1 mm • 0...8 mm/min 4 cm ³ - (~4 g) volume of tipping bucket - 0.2 mm • 0...16 mm/min
Accuracy: Collecting funnel: Ranges of application:	± 2 % with intensity correction 200 cm ² / WMO standard unheated varieties: 0...+70 °C metering (frost resistant down to -20 °C) heated varieties: -20...+70 °C • no icing • no snowdrift
Pulse output:	reed contact • polarity protected • bounce-free signal • supply voltage 4...30 V _{DC} • current consumption max. 100 µA • typical 50 µA • load max. 30 V _{DC} / 0.5 A
Housing/ Funnel + ring: Dimensions/ Weight: Standards:	aluminium • anodized H 292 mm • Ø 190 mm • for mounting pipe Ø 60 mm • approx. 3 kg WMO-No. 8 • VDI 3786 lf. 7 • EN 50081/82 • VDE 0100
Varieties:	
00.15189.002 000	(15189) Precipitation sensor with 2 cm ³ -volume of bucket • unheated
00.15189.004 000	(15189 W4) Precipitation sensor with 4 cm ³ -volume of bucket • unheated
00.15189.402 000	(15189 H) Precipitation sensor with 2 cm ³ -volume of bucket • heated*
00.15189.404 000	(15189 HW4) Precipitation sensor with 4 cm ³ -volume of bucket • heated*
*Heating data:	electr. controlled dual-circuit heating • supply voltage 24 V _{DC} • controlled temperature of 4 ± 2 °C within a range of -20...+4°C • heating power 150 W
Accessories:	Masts, dirt pan, protection ring, connecting cables, data logger, evaluation software
00.14966.200 000	(1496 S62) Power supply unit for heated sensors