

# 15189 PRECIPITATION SENSOR ACCORDING TO JOSS-TOGNINI



Developed through experience

and equipped with the features and benefits of its proven predecessors, this all-metal Tipping Bucket Precipitation Sensor 15189 is the "best in class". Its functionality is precisely designed to meet the needs of classical meteorology and hydrology as well as semi-professional industrial meteorology. The Precipitation Sensor 15189, in its different variants, is an extremely economical investment.

- Best price-performance ratio in its class!
- Single device or part of an automatic weather station
- Very reliable and robust measuring system
- High quality materials
- Easy installation
- Connectable to Lambrecht's data logger met[LOG] and Ser[LOG]

## APPLICATIONS

- Classical meteorology and hydrology
- Agriculture meteorology
- Measuring networks of water suppliers
- Lysimeter systems
- Sewage plants

Professional Line	15189
Id-No.	00.15189.002000 Sensor with 2 cm <sup>3</sup> bucket, unheated 00.15189.004000 Sensor with 4 cm <sup>3</sup> bucket, unheated 00.15189.402000 Sensor with 2 cm <sup>3</sup> bucket, heated 00.15189.404000 Sensor with 4 cm <sup>3</sup> bucket, heated
Measuring range	2 cm <sup>3</sup> : 0...8 mm/min • 4 cm <sup>3</sup> : 0...16 mm/min
Accuracy	Unheated: ± 2 % with intensity correction Heated: 4 °C ± 2 °C control temperature in the range of -20...+4 °C
Resolution	Version with 2 cm <sup>3</sup> tipping bucket: (~2 g) volume of tipping bucket - 0.1 mm Version with 4 cm <sup>3</sup> tipping bucket: (~4 g) volume of tipping bucket - 0.2 mm
Pulse output	Reed contact • polarity protected • bounce-free signal
Switching capacity	Max. 30 VDC / 0.5 A

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Professional Line	15189
Collection surface	200 cm <sup>2</sup> / WMO standard
Range of application	Unheated: 0...+70 °C (frost resistant down to -20 °C) Heated: -20...+70 °C (no icing, no snowdrift)
Supply voltage	Unheated: 4...30 VDC Heated: 24 VDC / 150 W
Current consumption	Max. 100 µA • typical 50 µA
Measuring elements	Tipping bucket system • precision stainless steel bucket acc. to Joss-Tognini
Design	Mounting pipe Ø 60 mm
Dimensions	H 292 mm • Ø 190 mm
Housing	Aluminium • anodised
Weight	Approx. 3 kg
Standards	WMO-No. 8 • VDI 3786 page 7 • EN 50081/82 • VDE 0100
Accessories (order separately)	32.15188.060090 Sensor cable 15189 unheated, 2 pole, 7 m 00.15091.600XXX Windshield according to Tretyakov for measuring height 1 m, 1.5 m and 2 m 32.15180.023020 Bird defense ring 32.15189.008000 Insect filter for 15189 unheated 32.15188.061020 Sensor cable 15189 heated, 4 pole, 1 m

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