PRODUCT OVERVIEW

15189 Precipitation sensor according to Joss-Tognini

POSSIBLE APPLICATIONS

- Classical meteorology and hydrology
- Agricultural meteorology
- Water management monitoring networks
- Lysimeter systems
- Sewage treatment plants

Reliable precipitation measurement for everyday use

The all-metal precipitation sensor 15189 operates on the tipping bucket principle and is known for its reliable measurement technology and robust construction. Its functionality is specifically designed to meet the requirements of traditional meteorology and hydrology, as well as semi-professional industrial meteorology. Available in various versions, the 15189 precipitation sensor offers a cost-effective solution for a wide range of applications.

- Great value for money
- Standalone unit or component of automatic weather stations
- A reliable and durable measuring system based on the tipping bucket principle
- Sturdy construction made from high-quality materials
- Easy installation and setup

PRODUCT OVERVIEW

15189 Precipitation sensor according to Joss-Tognini

Professional Line	15189
Ident-No.	00.15189.002000 Precipitation sensor: 2 cm^3 tipping-bucket volume, unheated 00.15189.004000 Precipitation sensor: 4 cm^3 tipping-bucket volume, unheated 00.15189.402000 Precipitation sensor: 2 cm^3 tipping bucket volume, heated 00.15189.404000 Precipitation sensor: 4 cm^3 tipping bucket volume, heated
Measuring ranges	2 cm^3: 0...8 mm/min; 4 cm^3: 0...16 mm/min
Accuracy	Unheated: ± 2% with intensity compensation Heated: 4 °C ± 2 °C Control temperature in the range of -20...+4 °C
Resolution	Variant with 2 cm^3 tipping bucket: (2 g) Tipping bucket volume - 0.1 mm Variant with 4 cm^3 tipping bucket: (4 g) Tipping bucket volume - 0.2 mm
Pulse output	Reed contact; reverse polarity protection; debounced signal
Switching capacity	Max. 30 VDC / 0.5 A
Collection area	200 cm^2 / WMO standard
Areas of application	Unheated: 0...+70 °C measuring (frost-proof to -20 °C) Heated: -20...+70 °C (no icing, no drifting)
Supply voltage	Unheated: 4...30 VDC Heated: 24 VDC / 150 W
Power consumption	Max. 100 µA; typically 50 µA
Measuring elements	Tilting balance; precision stainless steel tipping bucket according to Joss-Tognini on cutting bearings
Structure	Mounting tube Ø 60 mm
Dimensions	H 292 mm; Ø 190 mm
Weight	Approximately 3 kg
Material	Housing: Aluminum, anodized, painted Funnel: Aluminum, anodized Base: Cast aluminum, painted Tilting scale: Stainless steel, soldered
Standards and norms	WMO No. 8; VDI 3786 Sheet 7; EN 50081/82; VDE 0100
Accessories (order separately)	32.15188.060090 Sensor cable 15189 unheated, 2-wire, 7 m 00.15091.500XXX Windshield according to Tretjakov for measuring heights of 1 m, 1.5 m, and 2 m 32.15180.023020 Bird repellent ring 32.15189.008000 Insect protection grid for 15189 unheated 32.15188.061020 Sensor cable 15189 heated, 4-wire, 1 m

As of May 27, 2026