

15189 analogue

PRECIPITATION SENSOR ACCORDING TO JOSS-TOGNINI



Robustness meets design

The resistant and beautifully designed sensor has a linearised pulse output for high accuracy and easy connection to external data loggers! Its selectable analogue output signal substantially simplifies the connection to PLC. Winter-fit models and in general a long durability are guaranteed by weatherproof materials.

- selectable measuring ranges as well as absolute or gliding sums for the analogue output signals
- single device or part of an automatic weather station
- very reliable, weighing measuring system
- high-quality material
- easy installation
- connectable to Lambrecht's data logger met[LOG], Ser[LOG], PreLOG, TROPOS und SYNMET

APPLICATIONS

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

Professional Line	15189 analogue
Id-No.	00.15189.002050 Sensor with 2 cm <sup>3</sup> bucket, unheated 00.15189.004050 Sensor with 4 cm <sup>3</sup> bucket, unheated 00.15189.402050 Sensor with 2 cm <sup>3</sup> bucket, heated 00.15189.404050 Sensor with 4 cm <sup>3</sup> bucket, heated
Measuring range	2 cm <sup>3</sup> : (2 g) volume of tipping bucket - 0.1 mm • 4 cm <sup>3</sup> : (4 g) volume of tipping bucket - 0.2 mm
Accuracy	± 2 %
Resolution	2cm <sup>3</sup> : 0...8 mm/min • 4cm <sup>3</sup> : 0...16 mm/min
Analog output	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 analogue 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

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Professional Line	15189 analogue
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
Measuring elements	weighing tipping bucket system • precision stainless steel bucket acc. to Joss-Tognini
Design	mounting pipe Ø 60 mm
Heating data	dual-circuit heating • controlled temperature of 4 ± 2 °C within a range of -20...+4 °C heating power 150 W • supply voltage 24 VDC
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)	32.15188.061090 Sensor cable 4 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 00.14966.200000 Power supply unit for heated sensors 32.15188.061020 Cable for power supply 4 pole, 1 m 32.15189.008000 Insect filter for 15189 unheated

As of: 23.10.2022