

15189 serial

# PRECIPITATION SENSOR ACCORDING TO JOSS-TOGNINI



The successful precipitation sensor ...

now available with serial interface. The resistant and beautifully designed sensor has an additional linearised pulse output for high accuracy and easy connection to external data loggers. This new sensor provides intensity adjusted measurement of precipitation with serial measurand output via RS485.

- SDI-12 protocol (at RS485) for universal use
- interface RS 485
- LBP protocol (Lambrecht Bus Protocol)
- integrated intensity adjustment
- calculation of the precipitation sum since last data call
- calculation of the precipitation intensity for a gliding minute
- calculation of the precipitation intensity for a gliding hour (minute interval)

## APPLICATIONS

- system integrators
- classical meteorology and hydrology
- measuring networks of water suppliers
- sewage plants
- traffic meteorology

Professional Line	15189 serial Precipitation sensor according to Joss-Tognini
Id-No.	00.15189.002060 Sensor with 2 cm <sup>3</sup> bucket, unheated 00.15189.004060 Sensor with 4 cm <sup>3</sup> bucket, unheated 00.15189.402060 Sensor with 2 cm <sup>3</sup> bucket, heated 00.15189.404060 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	± 2 %
Resolution	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
Interface	RS485 • SDI-12 protocol (at RS485) • LBP protocol (Lambrecht Bus Protocol)
Collection surface	200 cm <sup>2</sup> / WMO standard

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Professional Line		15189 serial Precipitation sensor according to Joss-Tognini
Range of application	unheated: 0...+70 °C (frost resistant down to -20 °C) heated: -35...+70 °C - no icing - no snowdrift	
Supply voltage	10...30 V DC (12 V DC/ 24 V DC)	
Measuring elements	weighing tipping bucket system • precision stainless steel bucket acc. to Joss-Tognini	
Design	mounting pipe Ø 60 mm	
Heating data	electr. controlled dual-circuit heating • controlled temperature of $4 \pm 2$ °C within a range of -20...+4 °C heating power 150 W • supply voltage 24 V DC	
Dimensions	H 292 mm • Ø 190 mm	
Housing	aluminium • anodised	
Weight	approx. 2.5 kg	
Standards	WMO-No. 8 • VDI 3786 page 7 • EN 50081/82 • VDE 0100	
Accessories (order separately)	32.14567.060010 sensor cable, 15 m, 4-pol. M12-plug 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 32.15188.061090 Cable for power supply 4 pole, 7 m	

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