PRECIPITATION SENSOR

with tipping bucket acc. 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 analog output signal substantially simplifies the connection to PLC.
Winter-fit models and in general a long durability are guaranteed by weather-proof materials.

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

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

Standard Line	**(15189 analog) Precipitation Sensors**
Meas. principle/ element:	tipping bucket system · precision stainless steel bucket acc. to Joss-Tognini
Meas. range/ Resolution:	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:	± 2 %
Collecting funnel:	200 cm^2/ WMO standard
Ranges of application:	unheated versions: 0...+70 °C metering (frost resistant down to -20 °C) heated versions: -20...+70 °C · no icing · no snowdrift
Analog outputs:	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 analog 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
Housing/ Funnel + ring:	aluminium • anodized
Dimensions/ Weight:	H 292 mm · Ø 190 mm · for mounting pipe Ø 60 mm • approx. 3 kg
Standards:	WMO-No. 8 · VDI 3786 page 7 · EN 50081/82 · VDE 0100
Versions:	
00.15189.002 050	**(15189 analog)** **Precipitation sensor** with 2 cm^3-volume of bucket · unheated
00.15189.004 050	**(15189 W4 analog)** **Precipitation sensor** with 4 cm^3-volume of bucket · unheated
00.15189.402 050	**(15189 H analog)** **Precipitation sensor** with 2 cm^3-volume of bucket · heated*
00.15189.404 050	**(15189 H W4 analog)** **Precipitation sensor** with 4 cm^3-volume of bucket · heated*
	*Heating data: electr. controlled dual-circuit heating • controlled temperature of 4 ± 2 °C within a range of -20...+4 °C • heating power 150 W • supply voltage 24 VDC
Accessories:	
00.14966.200 000	**(1496 S62)** **Power supply unit** for heated sensors