



PRECIPITATION SENSOR

with tipping bucket acc. to Joss-Tognini

Robustness meets design...

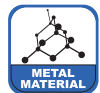
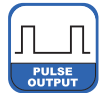
The resistant and beautifully designed sensor has a linearised pulse output for high accuracy and easy connection to external data loggers. Its selectable analog output signal substantially simplifies the connection to PLC.

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:
Meas. range/ Resolution:

tipping bucket system · precision stainless steel bucket acc. to Joss-Tognini
2 cm³- (2 g) volume of tipping bucket - 0.1 mm • 0...8 mm/min
4 cm³- (4 g) volume of tipping bucket - 0.2 mm • 0...16 mm/min

Accuracy:

± 2 %

Collecting funnel:

200 cm²/ 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 cm³-volume of bucket · unheated

00.15189.004 050

(15189 W4 analog) Precipitation sensor with 4 cm³-volume of bucket · unheated

00.15189.402 050

(15189 H analog) Precipitation sensor with 2 cm³-volume of bucket · heated*

00.15189.404 050

(15189 H W4 analog) Precipitation sensor with 4 cm³-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