



PRECIPITATION SENSOR

with weighing 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
- ▶ connectable to data logger TROPOS
- ▶ very reliable, weighing measuring system
- ▶ high-quality material
- ▶ easy installation

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

Standard Line

Meas. principle/ element:
Meas. range/ Resolution:

Accuracy:
Collecting funnel:
Ranges of application:

Analog outputs:

Pulse output:

Housing/ Funnel + ring:
Dimensions/ Weight:
Standards:

Versions:

00.15189.002 050

00.15189.004 050

00.15189.402 050

00.15189.404 050

*Heating data:

Accessories:

00.14966.200 000

(15189 analog) Precipitation Sensors

weighing 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

± 2 %

200 cm²/ WMO standard

unheated versions: 0...+70 °C metering (frost resistant down to -20 °C)

heated versions: -20...+70 °C · no icing · no snowdrift

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

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

aluminium · anodized

H 292 mm · Ø 190 mm · for mounting pipe Ø 60 mm · approx. 3 kg

WMO-No. 8 · VDI 3786 page 7 · EN 50081/82 · VDE 0100

(15189 analog)

Precipitation sensor with 2 cm³-volume of bucket · unheated

(15189 W4 analog)

Precipitation sensor with 4 cm³-volume of bucket · unheated

(15189 H analog)

Precipitation sensor with 2 cm³-volume of bucket · heated*

(15189 H W4 analog)

Precipitation sensor with 4 cm³-volume of bucket · heated*

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

(1496 S62)

Power supply unit for heated sensors