



PRECIPITATION SENSOR

acc. to Joss-Tognini



Grown out of experience!

- controlled three-circuit heating
- 2- and 4 cm³-volume of bucket
- no plastics at measuring parts



A uniquely brilliant idea...

lies behind the sensor (1518 H3). Not only are collecting and drain funnel heated, but also the collecting ring. Here, the snow is thawed so that the snow fall is measured promptly. The new electronically regulated three-circle heating device minimizes evaporation effects. Several thousand of these sensors are in use world-wide.

- suitable in high mountain areas
- constant operating temperature 4°C +/- 1°C for accurate measurement
- 2 or 4 cm³ high-quality stainless steel buckets
- absolutely weather-proof
- easy installation
- simple handling

meteorological reference device • automatic and high mountain area weather station • classical meteorology and hydrology • with lysimeters • sewage plants • building systems • water management/agriculture • forestry

Professional Line

(1518 H3) Precipitation Sensors

Measuring element:
Meas. range/ Resolution:

weighing tipping bucket • precision stainless steel bucket acc. to Joss-Tognini
2 cm³-volume of bucket - 0.1 mm • 0...10 mm/min
4 cm³-volume of bucket - 0.2 mm • 0...20 mm/min

Accuracy:

± 2% with intensity compensation • controlled temperature 4 °C ± 1 °C within a range of -35...+4 °C

Collecting surface:
Range of application:
Data of heating:

200 cm²/ WMO standard
operating temperatures -35...+70 °C
electr. controlled three-circuit heating • 235 VA total heating energy • 100 VA for ring • 100 VA for collecting funnel • 35 VA for downpipe/ bucket • supply voltage 42 V_{AC}

Pulse output:

reed contact • polarity protected • bounce-free signal • current consumption max. 100 µA • typical 50 µA • load max. 30 V_{DC}/ 0.5 A • supply voltage 4...30 V_{DC}

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

stainless steel • aluminium, anodized
H 494 mm • Ø 224 mm • for mounting pipe with Ø 60 mm • approx. 7 kg
WMO-No. 8 • VDI 3786 page 7 • EN 50081/82 • VDE 0100

Varieties:

00.15183.002 000
00.15183.004 000

(1518 H3) Precipitation Sensor with 2 cm³-volume of bucket
(1518 H3W4) Precipitation Sensor with 4 cm³-volume of bucket

Accessories: (optional)

(95666.1) TROPOS-100 Data logger (see chapter „Data logger“)