

PRECIPITATION SENSOR

Precipitation Measurement acc. to Joss-Tognini



Precision Inside!

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

With success...

the sensor (15188) stands up to any comparison with others in its class. Modern tipping- and heating technologies guarantee high reliability, precision and minimal evaporation influences. The system empties itself and registers – over-flowing is impossible.

The 4cm³ bucket with large volume has been constructed especially for extreme precipitation incidents, e.g. tropical rainstorms or longer recording intervals.

- smooth running tipping bucket bearings
- high resolution
- easy installation
- maintenance-free electronics
- fine materials

- automatic weather stations
- classical meteorology and hydrology
- with lysimeters
- sewage plants
- building systems
- water management/agriculture
- forestry

Professional Line

Measuring element:
Measuring range/ Resolution:

Accuracy:
Collecting surface:
Range of application:
Data of heating*:

Pulse output:
(without data logger)
Housing/ Funnel + ring:
Dimensions/ Weight:
Standards:

Varieties:

00.15188.002 000
00.15188.202 000
00.15188.002 200
00.15188.202 200
00.15188.004 000
00.15188.204 000

Accessories:

Data logger:

(15188)

Precipitation Sensors

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
± 2% with intensity compensation ● controlled temperature 4°C ± 2°C
200 cm²/ WMO standard
operating temperatures 0...+70°C ● -20...+70°C* ● controlled
electr. controlled dual-circuit heating ● 170 VA total heating energy ●
100 VA collecting funnel ● 70 VA downpipe/ bucket ● supply voltage 42 V_{AC}
reed contact, bounce-free ● contact impulse 60...85 ms ●
load max. 24 V_{DC}/ 0.2 A/ 3W
stainless steel ● aluminium, anodized
H 395 mm · Ø 190 mm · for mounting pipe with Ø 60 mm · 4 kg
WMO-No. 8 · VDI 3786 page 7 · EN 50081/82 · VDE 0100

(15188) with 2 cm³-volume of bucket · unheated
(15188 H)* with 2 cm³-volume of bucket · heating
(15188 D) with 2 cm³-volume of bucket · unheated · data logger
(15188 HD)* with 2 cm³-volume of bucket · heating · data logger
(15188 W4) with 4 cm³-volume of bucket · unheated
(15188 HW4)* with 4 cm³-Volume of bucket · heating

see page 30 and 101 ff.

see page 30 and 93 ff.



ACCESSORIES

for Precipitation Sensors



Accessories for types (1518 H3) and (15188):

Id-No.	Code	Bezeichnung
00.15180.400 000	(1518 S4)	Assembly mast for (1518 H3) and (15188) · 1.2 m
00.15180.800 000	(1518 S8)	Concrete foundation mast for (15188) · 650 mm · Ø 60 mm · measuring height 1 m
00.15180.800 010	(1518 S8a)	Concrete foundation mast for (1518 H3) · 570 mm · Ø 60 mm · measuring height 1 m
32.15180.021 010	(1518 U21a)	Protection ring against birds for (15188)
32.15183.021 010	(15183 U21a)	Protection ring against birds for (1518 H3)
32.15188.060 090	(15188 U60i)	Connecting cable · 7 m sensor/ data logging system
32.15183.060 030	(15183 U60c)	Connecting cable · 11 m filament transformer/ data logging system



Accessories for heated models (H-models):

00.15123.242 000	(15123)	Filament transformer [formerly (1518T)] supply voltage 230 V _{AC} · output voltage 42 V _{AC} / 250 VA · protection class IP 65 · dimensions 220 x 168 x 116 mm weight 6 kg
32.15180.815 000	(1518 U815)	Mounting plate for filament transformer · weight 1.5 kg for mounting pipe with Ø 60 mm
32.15183.060 000	(15183 U60)	Connecting cable · 0.6 m sensor/ filament transformer · for (1518 H3)
32.15188.060 020	(15188 U60b)	Connecting cable · 0.6 m sensor/ filament transformer · for (15188 H)

Accessories for models with data logger (D-models)

36.09334.000 000	(9334-0)	Software MeteoWare-Log · basic module
36.09334.200 000	(9334-2)	Software MeteoWare-Log · module 5 stations

Data of data logger RainLog for sensor types (1518 H3D), (15188 D) and (15188 HD)

Measuring range:	0...10 (20) mm/min
Resolution:	0.1 mm · 0.2 mm · depending on volume of bucket
Memory:	for 32.000 measured values
Measuring interval:	1/ 2/ 5/ 10/ 30/ 60 min selectable
Interface:	RS 232 · data communication via laptop (laptop not included in delivery)
Battery:	approx. 8 years durability
Option:	communication via modem on request

Further information
see chapter „Data logger
and Software“ [page 93](#).

