



PRECIPITATION SENSOR „rain[e]H3“

Weighing precipitation sensor

rain[e]H3

Protected against freezing.

Due to the innovative weighing technology combined with a self-emptying collection vessel the rain[e] sets new standards in professional precipitation measurement. Its outstanding resolution and accuracy are approved all over the world. The rain[e]H3 with electronically regulated ring heating is designed especially for extreme cold climates. Integrated outside temperature sensor, real time clock, electronic monitoring when opening the housing and remote servicing are features of continuous development.

With optional port server and web interface the rain[e]H3 is well equipped for all communicative demands in future.

- electronically controlled ring-, funnel- and drain-line heaters
- easy installation and maintenance



Technical Data

Weighing Precipitation Sensor rain[e]H3

Id-No. 00.15184.540 020

Measurable precipitation types:	liquid, solid, mixed
Measuring principle:	weighing with automatic self emptying
Operating temperature:	-40...+70 °C (no icing or snow drift)
Storage temperature:	-40...+70 °C
Collecting area:	200 cm ²
Measuring range (amount):	without limitation (0.005...∞ mm)
Resolution (amount):	0.001 mm
Accuracy (amount):	± 0.1 mm or ± 1 % at < 6 mm/min and ± 2 % at > 6 mm/min
Measuring range (intensity):	0...20 mm/min resp. 0...1200 mm/h
Resolution (intensity):	0.001 mm/min resp. 0.001 mm/h
Accuracy (intensity):	± 0.1 mm/min resp. ± 6 mm/h
Integrated outside temperature sensor:	measuring range: -35...+45 °C • basic accuracy*: < 0.5 °C
Dimensions:	377 mm × 190 mm (H × Ø)
Mountable on:	Ø 60 mm
Weight:	approx. 4 kg
Standards:	WMO-No. 8 • VDI 3786 Bl. 7 • EN 61000-2, -4 EN 61000-4-2, -3, -4, -5, -6, -11 • NAMUR NE-21
Protection class weighing cell:	IP67
Protection class housing:	IP64
Current consumption:	max. 150 mA at 12 V supply with Ethernet
Supply voltage:	9.8...32 V DC
Heating data:	electronically controlled ring-, funnel- and drain-line heaters
Target temperature:	+2 °C funnel-surface temperature
Accuracy:	± 1 °C
Heating power:	70 W (funnel) · 60 W (discharge/ collecting vessel) · 70 W (ring heating)
Output signals:	· SDI-12 • RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol) · 2 Pulse-Outputs for linearised, bounce-free output signal · Status-Output (configurable, e.g. rain yes/no or heating on/off) · Analogue output 0/4...20 mA (0...2.5/5V)
Real Time Clock (RTC):	integrated

*) without the influence of sunlight