

rain[e]H3 Weighing precipitation sensor



POSSIBLE APPLICATIONS

- Meteorology and hydrology
- Monitoring networks
- Weather services

Reliable precipitation measurement even at extreme temperatures

Thanks to innovative weighing technology combined with a self-emptying collection vessel, the rain[e]H3 sets new standards in professional precipitation measurement. Its outstanding resolution and accuracy are recognized worldwide. The rain[e]H3 with electronically controlled ring heating is specially designed for extremely cold climates. Features of continuous development include an integrated outdoor temperature sensor, a real-time clock, electronic monitoring when the housing is opened, and remote maintenance. With an optional port server and web interface, the rain[e]H3 is also ideally prepared for the communication requirements of the future.

- Electronically controlled ring, funnel, and drain heating
- Outstanding resolution and precision
- All-metal housing, weatherproof and durable
- Easy installation and maintenance



PRODUCT OVERVIEW

rain[e]H3 Weighing precipitation sensor

Professional Line	rain[e]H3
Ident-No.	00.15184.540020
Measuring ranges	Without limitation (0.005... ∞ mm)
Amount Accuracy	± 0.1 mm or ± 1% at < 6 mm/min and ± 2% at ≥ 6 mm/min
Amount of dissolution	0.001 mm
Intensity Range	0...20 mm/min or 0...1200 mm/h
Intensity Resolution	0.001 mm/min or 0.001 mm/h
Output	SDI-12; RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol) 2 pulse outputs for linearized, bounce-free output signal Status output (configurable, e.g., rain yes/no or heating on/off) Analog output 0/4...20 mA (0...2.5/5 V)
Collection area	200 cm ²
Ambient conditions	-40...+70 °C (no icing, no snow drifting)
Supply voltage	9.8...32 VDC
Power consumption	Typical 7.5 mA at 24 V supply voltage, without Ethernet and with RS-485 Typical 12.5 mA at 12 V; max. 150 mA at 12 V supply voltage with Ethernet
Target temperature (heating)	+2 °C Funnel surface temperature; ± 1 °C
Measuring principle	Weighing, with automatic self-emptying
Structure	Mounting mast Ø 60 mm
Heating data	Electronically controlled, ring heater (70 W), funnel heater (70 W), and drain (60 W)
Dimensions	377 mm x 190 mm (H x D)
Protection class	Load cell: IP67; Housing: IP64
Weight	Approx. 4 kg
Material	Housing: Aluminum, anodized, painted white Funnel: Aluminum, anodized Base: Cast aluminum, painted Collection vessel: Aluminum, black anodized
Standards and norms	WMO No. 8; VDI 3786 Sheet 7; EN 61000-2, -4; EN 61000-4-2, -3, -4, -5, -6, -11; NAMUR NE-21
Accessories (order separately)	00.15091.500XXX Windshield according to Tretjakov for measuring heights of 1 m, 1.5 m, and 2 m 32.15180.022020 Bird repellent ring for rain[e]H3 32.15184.060000 Sensor cable, 10 m, 8-pin, M12 plug 32.15184.061000 Power connection cable for sensor heating, 1 m

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