

rain[e]H3 WEIGHING PRECIPITATION SENSOR











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 heatings
- · outstanding resolution and accuracy
- · all-metal housing, weatherproof and long-living
- · easy installation and maintenance

APPLICATIONS

- · classical meteorology and hydrology
- · measuring networks
- · Weather Services

Professional Line	rain[e]H3 Weighing precipitation sensor
ld-No.	00.15184.540020
Measuring range	without limitation (0.005 ∞ mm)
Accuracy	± 0.1 mm or ±1 % at < 6 mm/min and ± 2 % at ≥ 6 mm/min
Amount of accuracy	1 % at 1 mm/min
Amount of Resolution	0.001 mm
Intensity range	020 mm/min resp. 01200 mm/h
Intensity of resolution	0.001 mm/min resp. 0.001 mm/h
Output	• 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 0/420 mA (02.5/5 V)

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Professional Line	rain[e]H3 Weighing precipitation sensor
Collection surface	200 cm ²
Environmental conditions	-40+70 °C (no icing or snowdrift)
Supply voltage	9.832 V DC
Current consumption	typ. 7.5 mA at 24 V power supply, without Ethernet with RS485 ·
	typ. 12.5 mA at 12 V • max. 150 mA at 12 V power supply with Ethernet
Target temperature (heating)	+2 °C funnel-surface temperature • ± 1 °C
Measuring principle	weighing with automatic self emptying
Design	mounting mast Ø 60 mm
Heating data	electronically controlled ring- (70 W), funnel- (70 W) and drain-line (60 W) heating
Dimensions	377 mm x 190 mm (H x diam.)
Protection class	Weighing cell: IP67; housing: IP64
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
Accessories (order separately)	00.15091.600XXX Windshield according to Tretyakov for measuring height 1 m, 1.5 m and 2 m
	32.15180.021010 bird defense ring
	32.15184.060000 sensor cable, 10 m, 8-polig, M12-Stecker
	32.15184.061000 Power supply cable for sensor heating, 1 m

As of: 18.10.2019