PRODUCT-VIEW

LAMBRECHT meteo

AN aem BRAND

rain[e] Modbus WEIGHING PRECIPITATION SENSOR

Latest weighing technology

combined with a self-emptying collecting system allows the rain[e] a high resolution and high precision at a very small construction volume. Already the first drop will be measured! The rain[e] is ideal to setup new measurement network as well as addition to an existing rainfall measurement network. The Modbus RTU interface simplifies sensor installation and integration into networks.

- amazing resolution and accuracy
- checking of sensors with tipping bucket and other weighing systems
- compact and robust construction with a very low weight
- all-metal housing, weatherproof and durable
- best connectivity by several interfaces
- installation and maintenance are very simple

APPLICATIONS

- professional meteorological applications
- building automation
- photovoltaic systems
- industrial meteorology

Professional Line	rain[e] Modbus
Id-No.	00.15184.000100 rain[e] Modbus, unheated • 00.15184.400100 rain[e] Modbus, heated
Measuring range	(0.005...∞ mm) without limitation
Amount of accuracy	± 0,1 mm or ± 1 % at 6 mm/min • ± 2 % at ≥ 6 mm/min
Amount of Resolution	0.001 mm (pulse output: 0.01 mm)
Intensity range	0...10 mm/min resp. 0...600 mm/h
Intensity of resolution	0.001 mm/min resp. 0.001 mm/h
Output	RS-485 (ASCII protocol, TALKER protocol) • Modbus RTU (default) 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...2.5/5 V)

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Professional Line	rain[e] Modbus
Collection surface	200 cm^2
Environmental conditions	0...+70 °C (unheated), -40...70 °C (heated, no icing, no snowdrift)
Supply voltage	9.8...32 V DC unheated 24 V DC / 2 heating circuits: 80 W (funnel) and 60 W (outlet / tipping bucket)
Power consumption	max. 45 mA at 24 V power supply and analogue output typ. 7.5 mA at 24 V power supply and deactivated analog output typ. 12.5 mA at 12 V
Target temperature (heating)	+2 °C funnel surface temperature
Measuring principle	weighing with automatic self emptying
Dimensions	292 mm x 190 mm (H x D)
Protection class	IP67
Weight	approx. 2.5 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)	00.15091.500XXX Windshield according to Tretyakov for measuring height 1 m, 1.5 m and 2 m 32.15180.023020 bird defense ring 32.14567.060010 sensor cable, 15 m, 4 pole, M12 plug 32.14567.060000 sensor cable, 12 m, 4 pole, M12 plug 32.15184.061000 Power supply cable for sensor heating, 1 m

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