

rain[e]one Modbus

WEIGHING PRECIPITATION SENSOR



Ready for your Modbus RTU system

Latest weighing technology combined with a self-emptying collecting system allows the rain[e]one Modbus a high resolution and high precision at a very small construction volume. Already the first drop will be measured!

The weighing precipitation sensor is preconfigured for easy integration into your Modbus RTU system. This simplifies the installation work enormously.

- amazing resolution and accuracy
- compact and robust construction with a very low weight
- all-metal housing, weatherproof and durable
- installation and maintenance are very simple

APPLICATIONS

- industrial applications
- SCADA systems
- large-scale photovoltaic systems
- power grids

Professional Line	rain[e]one Modbus Weighing precipitation sensor
Id-No.	00.15184.000101 rain[e]one Modbus, unheated · 00.15184.400101 rain[e]one, heated
Measuring range	without limitation (0.005...∞ mm)
Accuracy	0.1 mm or 2 %
Amount of accuracy	0.1 mm or 2 %
Amount of Resolution	0.001 mm (pulse output: 0.01 mm)
Intensity range	0...10 mm/min resp. 0...600 mm/h
Accuracy intensity	± 0.1 mm/min • resp. ± 6 mm/h
Intensity of resolution	0.001 mm/min resp. 0.001 mm/h

Continued on page 2

Professional Line rain[e]one Modbus Weighing precipitation sensor	
Output	Modbus RTU
Collection surface	200 cm ²
Environmental conditions	0...+70 °C (unheated) • -40...+70 °C (no icing, no snowdri
Supply voltage	9.8 ... 32 V DC 24 VDC / 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
Heating data	Target temperature: +2 °C funnel surface temperature • 80 W (funnel) • 60 W (outlet/ tipping bucket)
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)	00.15091.600XXX Windshield according to Tretyakov for measuring height 1 m, 1.5 m and 2 m 32.15180.021010 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

As of: 18.10.2019