

Rain[e] Precipitation Sensor

The latest in weighing system technology combined with a self emptying precision tipping bucket system allows the rain[e] an extremely high resolution even at a very small volume. It can remarkably measure individual drops of water. The rain[e] is optimal for setting up a new precipitation measurement network, as well as adding to an existing measurement network. This system utilizes the highest quality sensors to ensure reliable, accurate data.

Features

- Amazing Resolution And Accuracy
- Tipping Bucket And Weighing System
- Compact And Robust Construction With A Very Low Weight
- Full Metal Housing, Weatherproof And Extremely Durable
- Best Connectivity By Several Interfaces
- Installation And Maintenance Are Very Simple



Uses

- Ecological • Full Functioning Year-Round Without Antifreeze Fluid Makes The Rain[e] Very Environmentally Friendly
- Extraordinary • The Rain[e] Is A New Kind Of Weighing Precipitation Sensor. Featuring The Highest Resolution Combined With The Most Compact Design
- Exact • Our Unique Self Emptying Rain Collection System Allows For Single Water Drop Measurement At An Astonishing Resolution Of 0.001 mm / mC
- Efficient • Highest Functionality Delivered In Compact Space. Providing 6 Different Interfaces. Rain[e] Supports Solar Powered Applications At Low Power Consumption. Optionally, Rain[e] Is Also Available With A High Efficiency Heating System.
- Easy • Rain[e] Is Easy To Lift, Transport, Install, Check And Maintain
- Economic • Small Package Volume And Light Weight Allow For Low Transport Costs. The Rain[e] Is Up To 50% Less Expensive Than Other Weighing Sensors, Yet Provides Similar Or Improved Functionality.

Unheated Specs

Measuring Principle:	Weighing With Automatic Self Emptying
Operating Temperature	0 - + 70°C (Unheated)
Collecting Area	200 cmC
Amount Measuring Range	Without Limitation (0.005 - ∞mm)
Amount Resolution	0.001mm (Pulse Output: 0.01mm)
Amount Accuracy	± 0.1mm or ± 1% at < 6mm/ min and ± 2% at > 6mm/ min
Intensity Range	0 – 20mm / min resp. 0 – 1200 mm/h
Intensity Resolution	0.001 mm / min resp. 0.001 mm/h
Intensity Accuracy	± 0.1mm / min resp. ± 6 mm/h
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	IP 67
Current Consumption	max. 45 mA at 24 V Power Supply And Analogue Output • typ. 6.5 mA at 24 V Power Supply and Pulse Output • typ. 10.5 mA at 12 V
Supply Voltage	9.8 – 32 V DC
Signal Outputs	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)

Heated Specs

Same Data But With Additional controlled 2 Circuit Heating.

Target Temperature	(Heating) +2°C Funnel Surface Temperature
Heating Power	80 W (funnel) • 60 W (Outlet / Tipping Bucket)
Supply Voltage	24 V DC / 2 Heating Circuits 80 W and 60 W
Operating Temperature	-40 - +70°C (No Icing, No Snowdrift)

Additional Lambrecht Products Available. Please Call For Details.