rain[e]

ecological

Full functionality around the year without antifreeze fluid makes the rain[e] very environmentally friendly.

extraordinary

The rain[e] is a new kind of weighing precipitation sensor. Highest resolution combined with the most compact unique design.

exact

Our unique self-emptying collecting system allows single drop measurement at the high resolution of 0.001 mm/m².

efficient

Highest functionality delivered in compact space, yet providing 6 different interfaces. rain[e] supports solar-powered applications at low power consumption. Optionally, rain[e] is available with a high-efficiency heating system.

easy

rain[e] is easy to lift, to transport, to install, to check and to 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 providing similar or improved functionality.

Professional Line	**rain[e] Weighing precipitation sensor**
rain[e], unheated	**Id-No. 00.15184.000 000**
Measuring principle:	weighing with automatic self emptying
Operating temperature:	0...+70 °C (unheated)
Collecting area:	200 cm²
Amount measuring range:	without limitation (0.005...∞ mm)
Amount resolution:	0.001 mm (pulse output: 0.01 mm)
Amount accuracy:	± 0.1 mm or ± 1 % at < 6 mm/min and ± 2 % at > 6 mm/min
Intensity range:	0...20 mm/min resp. 0...1200 mm/h
Intensity resolution:	0.001 mm/min resp. 0.001 mm/h
Intensity accuracy:	± 0.1 mm/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:	IP67
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)

rain[e] heated **Id-No. 00.15184.400 000**

Data like rain[e] 00.15184.000 000, but in addition with 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)

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