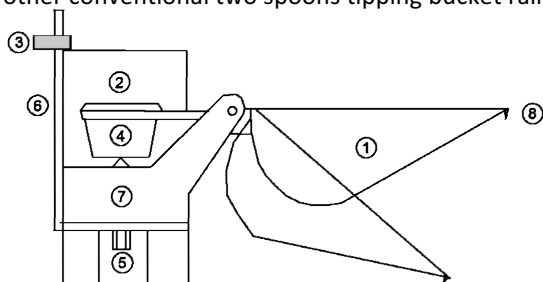




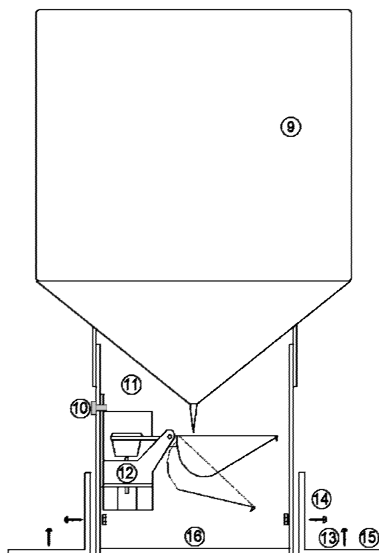
Technical specifications

Rain collector/Tipping spoon

RAIN-O-MATIC PROFESSIONAL measures the precipitation by means of a funnel (orifice 200 cm²), which leads the water down into the self-emptying tipping POM bucket, held in place by a hard ferrite magnet. The magnet always exerts just enough tension to allow the measuring bucket to empty in one quick movement (less than 300 ms) and then return to its normal position, ready to collect precipitation once again. This means the counter weight always remains the same opposite to other conventional two spoons tipping bucket rain gauges.



1. Self-emptying bucket
2. PCB with reed switch
3. Screw to hold the entire unit
4. Magnet
5. Adjustment screw
6. Angle brackets
7. Holder for bucket
8. Drip catcher



9. Funnel with grille
10. Screw for whole measurement unit
11. Box with measurement unit
12. Measurement unit
13. 4 pcs. screw
14. 4 pcs. screw with nuts
15. 2 pcs. angle brackets
16. Baseplate

ASA (Acrylonitrile Styrene Acrylate)

The rain gauge made in molded thermoplastic, also known as ASA, which has high outdoor weather ability.

ASA is extremely resistant against the sun's UV radiation, it is frost- and heat resistant, standing all climatically conditions.

The product is widely used in the automotive industry as well as several other outdoor applications.

PCB

The electronic printed circuit board with individually tested and high quality reed switches protected against extreme weather conditions such as extreme frost or heat. This include corrosion from salt water due to the PCB is coated with weather-resistant varnish.

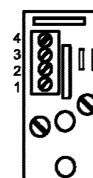
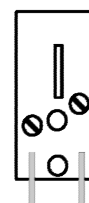
The printed circuit board comes in two versions

-Version 1: PCB No. 9601

(NC—normally closed) has male connection and 1 reed switch.

PCB no. 9601

PCB no. 9602



- Version 2: PCB No. 9602

(NC—Normally closed, NO—Normally open). Terminal strip with 4 connections / 2 outlets

and 2 reed switches connected-up in series by 1 k ohm and 1/4W resistor.

Typical switching times for PCB 9602

Spoon	Terminal 1-2 Normally closed	Terminal 3-4 Normally open
2ml	443ms $\sigma = 14\text{mS}$	352ms $\sigma = 14\text{mS}$
4ml	307ms $\sigma = 12\text{mS}$	278ms $\sigma = 12\text{mS}$
5ml	326ms $\sigma = 11\text{mS}$	301ms $\sigma = 12\text{mS}$
10ml	322ms $\sigma = 7\text{mS}$	305ms $\sigma = 8\text{mS}$

σ = Standard deviation

Filter design: Max 200msec recommended.

Resolution

- 0,10 mm
- 0,20 mm
- 0,25 mm
- 0,50 mm

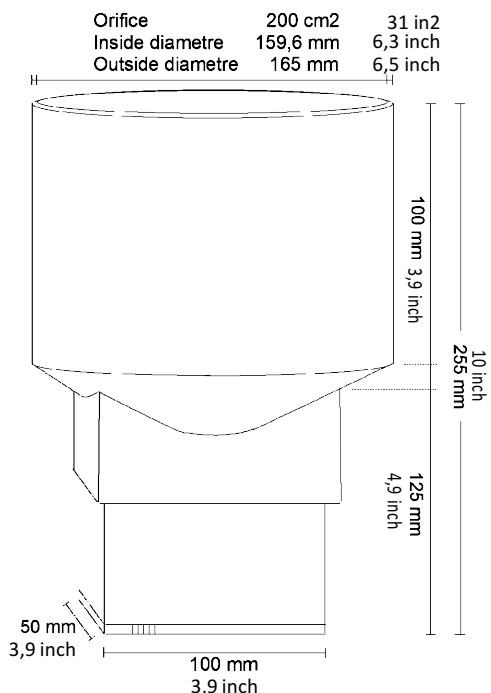
Patent

RAIN-O-MATIC PROFESSIONAL is patented and protected by the Law of Copyright. Patent no. UM-27598, AU pat. 565951, EPO Pat. 014212, US pat.

4.644.786, CA Pat. 126181, Japan Pat. 501208/83 Taiwan Reg. 74-201292

Components may NOT be used for other products or purposes without a written approval from PRONAMIC ApS. Violation implies immediate prosecution.

Measurements



Splash room height
 incl. bottom: 170 mm 6,7 inch
 Weight incl. angle brackets: 380 g 13,5 oz

Capacity per minute with 12 tips

0,10 mm:	1,2 mm
0,20 mm:	2,4 mm
0,25 mm:	3,0 mm
0,50 mm:	6,0 mm

Item list of complete collectors

Rain collector with PCB no. 9601 resolution 0,10 mm	300.021-10
Rain collector with PCB no. 9601 resolution 0,20 mm	300.021-20
Rain collector with PCB no. 9601 resolution 0,25 mm	300.021-25
Rain collector with PCB no. 9601 resolution 0,50 mm	300.021-50
Rain collector with PCB no. 9602 resolution 0,10 mm	300.023-10
Rain collector with PCB no. 9602 resolution 0,20 mm	300.023-20
Rain collector with PCB no. 9602 resolution 0,25 mm	300.023-25
Rain collector with PCB no. 9602 resolution 0,50 mm	300.023-50

Rainfall intensity diagrams

