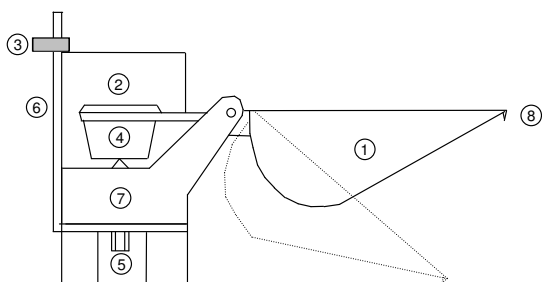


### Technical specifications

#### Rain collector/Tipping bucket

Rain-O-Matic Small measures the precipitation by means of a funnel (orifice 50 cm<sup>2</sup>), 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 once again collect precipitation. 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 spoon
- 8. Drip catcher

#### Styrosun

The rain gauge is mainly made in moulded modified high-impact polystyrene also known as STYROSUN which is a highly weather-resistant polymer that reduces breakdown and discoloration.

STYROSUN which has passed the Arizona test is extremely resistant against the sun's UV radiation and it is frost- and heat resistant standing all climatically conditions.

STYROSUN is resistant to common household cleaners, recyclable and easily decorated.

#### PCB

The electronic printed circuit board with individually tested and high quality reed switches is 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.

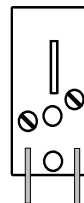
#### The printed circuit board comes in two versions

- Version 1: Item no. 100.053 - PCB No. 9601 (NC—normally closed) has male connection and 1 reed switch

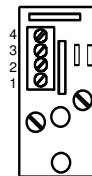
- Version 2: Item no. 100.054 - PCB No. 9602 (NC—Normally closed, NO—Normally open) Terminal strip, 4 connections / 2

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

PCB no. 9601



PCB no. 9602

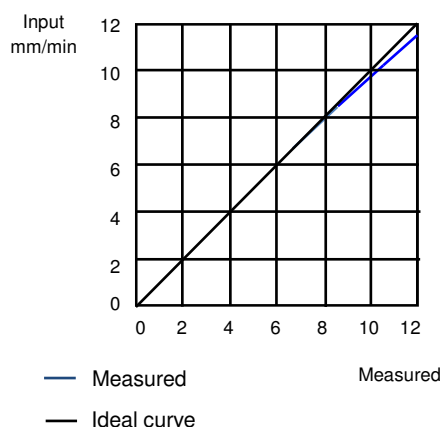


Terminal Strip	Reed Switch	0,2 mm/tip	0,25 mm/tip	0,50 mm/tip
1 - 2	Normally Closed	190 ms open	220 ms open	255 ms open
3 - 4	Normally Open	255 ms closed	225 ms closed	295 ms closed

Operating times for PCB no. 9602

#### Rainfall intensity diagrams

Intensity-curve with 1,0 mm / impulse



	Millimeter version	American version
Resolution:	1,00 mm	1/10 inch
Orifice:	50 cm <sup>2</sup>	7,75 sq. Inch
Total height:	10,0 cm	3,94 inch
Weight:	118 g	4,1 oz

**Rain-O-Matic Small rain gauge with our patented self-emptying tipping bucket is a reliable low cost high quality rain gauge ideal for small weather stations, irrigation and consumer purposes.**



**For 28 years we have supplied more than 200.000 rain gauges to 41 countries on 5 continents and we deliver our products to OEM customers only and we are not competing with you for the end user.**

**Tipping bucket**

RAIN-O-MATIC Small patented self-emptying tipping bucket is one of the most accurate and reliable rain gauges on the market. It gives you advantages in:

- More accurate measurements
- Only one adjustment screw which makes it easy to recalibrate.
- Bucket made in POM, which is a more dismissive material and therefore makes dust and dirt not stick so easily on the bucket and maximize water release.

**Resolution**

Our Rain-O-Matic Small comes standardly as machine calibrated with 1 mm resolution (max. +/- 5 % deviation) but it can be ordered as fine calibrated with 1 mm resolution (max. +/- 2 % deviation) for an additional charges.

**Minimal maintenance**

Our rain gauges require minimal maintenance due to:

-Outer shell is made from Styrosun which makes the surface easy to clean.

- High quality materials and a simple design for a very long durability (10-20 years)

**Full customization**

Our strength is customized solutions for the individual customer. Rain-O-Matic Small rain gauge can for example be customized especially to your demands regarding:

**Mounting brackets**

Don't worry about if the rain gauge fit your system.

**Logo Match**

Branding of your own brand/company name. If you have other demands, please let us know.

**Flexible cable connections**

We can manufacture the rain gauges with a variety of connection cables so they will fit into your system. For example:

- Binder connection.
- Jack plug.
- Standard two poles.

**Applications areas**

The Rain-O-Matic Small is light (118 gr) and compact but rugged which makes it perfect for:

- Small weather stations
- Irrigation
- Highway Authorities
- Constructions Engineers
- Forestry
- Outdoor sport facilities
- Schools
- Hoppy Gardeners

**Prices and logistics**

We deliver directly to you. We have no agents, distributors or other expensive middlemen.

**Prices:**

Let us have your estimate for quantities and we will come back to you within 2 days on weekdays.

**Freight**

Due to its size and lightness it is quite economic to freight worldwide. Free shipping for order over 200 pieces. Less than 200 pieces, please contact us for an offer.

**Time of delivery**

From week to week depending on the size of the order.

**Warranty**

Our rain gauges are of such a high quality that we offer 24 months of warranty on mechanical- and plastic parts. Rain-O-Matic Small have been tested 100 % frost proof See Service & Support for further information.

**Patent**

Rain-O-Matic Small 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

**Accessories**

Currently we can offer following accessories:

- Standard 1m binder cable
- Standard pole bracket
- Spider protection