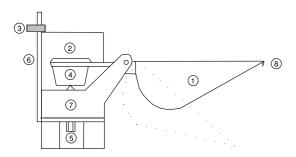
Rain-O-Matic Small Rain Gauge

Technical specifications

Rain collector/Tipping bucket

Rain-O-Matic Small measures the precipitation by means of a funnel (orifice 50 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 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 highimpact 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.

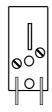
The printed circuit board comes in two versions

- Version 1: Item no. JRS-053 PCB No. 9601 (NC—normally closed) has male connection and 1 reed switch
- Version 2: Item no. JRS-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



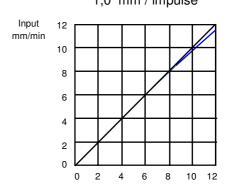


Terminal Strip	Reed Switch	0,2 mm/tip	0,25 mm/tip	0,50 mm/tip_
1 - 2	Normally	190 ms	220 ms	255 ms
	Closed	open	open	open
3 - 4	Normally	255 ms	225 ms	295 ms
	Open	closed	closed	closed

Operating times for PCB no. 9602

Rainfall intensity diagrams

Intensity-curve with 1,0 mm / impulse



— Measured

Measured

Ideal curve

	Millimeter version	American version
Resolution:	1,00 mm	1/10 inch
Orifice:	50 cm2	7,75 sq. Inch
Total height:	10,0 cm	3,94 inch
Weight:	118 g	4,1 oz

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Rain-O-Matic Small Gain Gauge

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.



Tipping bucket

RAIN-O-MATIC Small patented selfemptying 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)

Mounting brackets

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

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

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

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