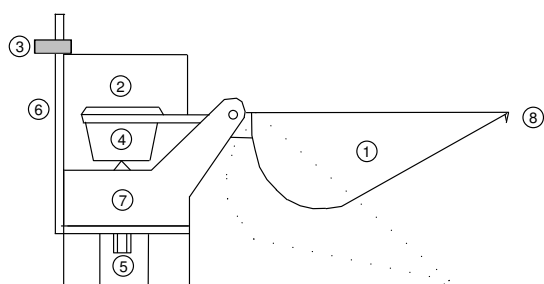


Rain-O-Matic Tower Rain Gauge

Technical specifications

Rain collector/Tipping bucket

Rain-O-Matic Tower 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 bucket
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 includes corrosion from salt water due to the PCB is coated with weather-resistant varnish.

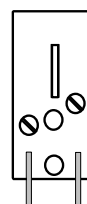
The printed circuit board comes in two versions

- Version 1: JRT-073—PCB No. 9601 (NC—normally closed) has male connection and 1 reed switch .

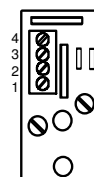
- Version 2: JRT-074— PCB No. 9602 (NC—Normally closed, NO—Normally open) Terminal strip, 4 connections / 2

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

PCB no. 9601



PCB no. 9602

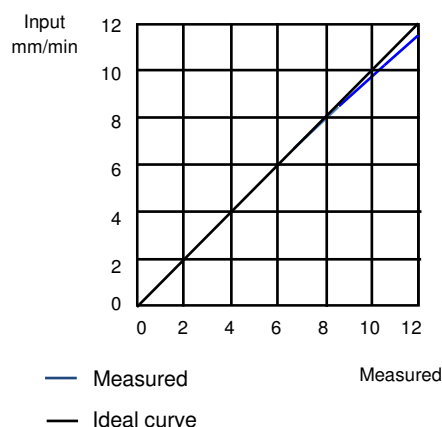


Terminal Strip	Reed Switch	0,2 mm/tip	0,25 mm/tip	0,50 mm/tip
1 - 2	Normally Closed	190 ms open	220 ms open	255 ms open
3 - 4	Normally Open	255 ms closed	225 ms closed	295 ms closed

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 ²	7,75 sq. Inch
Total height:	10,0 cm	3,94 inch
Weight:	118 g	4,1 oz

Rain-O-Matic Tower Gain Gauge

Rain-O-Matic Tower 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.



Calibration

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.

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.

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)

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. See Service & Support for further information.

Rain-O-Matic Tower have been tested 100 % frost proof

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

Tipping bucket

RAIN-O-MATIC Tower 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 spoon and maximize water release.

