

# Model 915-RG

## RAIN GUAGE

### Applications

- METEOROLOGY
- BOTANY
- HORTICULTURE
- FORESTRY
- BUILDING RESEARCH

### Features

- WMO STANDARD
- RUGGED
- SENSITIVE
- ENVIRONMENTALLY PROVEN

### Description

The 915-RG RAINFALL SENSOR is a tipping bucket type rain sensor, to WMO standard. It has been proven over a wide range of climate conditions.

### Operation

Rainfall collected by the funnel is passed via a filtered siphon to ensure a constant delivery rate to the tipping bucket assembly. This ensures accurate metering up to 200 mm/ hour rainfall rates.

Each time the bucket tips and empties a magnet momentarily closes a reed switch. Switch closures can be monitored by remote equipment to measure rainfall rate and total.

### Construction

All materials used in manufacture are resistant to corrosion or are coated with corrosion resistant finishes, thus ensuring maintenance free operation in all environments. A fine stainless steel mesh protects openings from ingress of insects etc.

For correct operation, this type of rain sensor must be mounted in a level position.



A "Bull's-eye" level is incorporated to facilitate levelling. 10 metres of screened cable is fitted.

### Calibration

The 915 is set at the factory for 0.2 mm/tip. However, the setting can be set in the range 0.2 to 0.5 mm/tip by simple mechanical adjustment. The calibration procedure is simple enough to be easily performed on site.

### Application

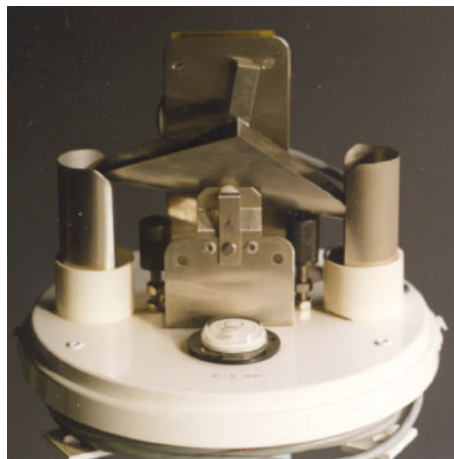
This type of sensor can be used with Automatic Weather Stations, computers and digital totalisers. Care should be taken to "de-bounce" the contacts and provide lightning protection for the interface circuitry.

### Options

A heated version is available for cold climate application. A leaf catcher filter option prevents leaves and other debris from clogging the funnel.

**Specifications: Rainfall Sensor 915**

<b>BUCKET CAPACITY</b>	0.2- 0.5 MM RAINFALL
<b>CALIBRATION</b>	FACTORY SET AT 0.2 MM/TIP (ADJUSTABLE)
<b>RAIN GUAGE DIAMETER</b>	203 MM
<b>RECIEVING SURFACE AREA</b>	325 SQR MM
<b>ACCURACY</b>	4% UP TO 200 MM/HOUR
<b>OUTPUT</b>	40 MS SWITCH PULSE
<b>RATING</b>	500 MA/15 VA
<b>MOUNTING</b>	LEVEL SURFACE
<b>WEIGHT</b>	4 KG NETT
<b>DIMENSIONS</b>	210 MM DIA 340 HIGH
<b>PACKED DIMENSIONS</b>	300 X 300 X 400 MM 6KG Packed.
<b>FINISH:</b>	
FUNNEL AND BASE	BAKED POLYURETHANE COATED ALUMINIUM
BARREL AND FRAME	STAINLESS STEEL
OTHER PARTS	PVC, STAINLESS STEEL, NICKEL PLATED BRASS.



**INTERNAL VIEW OF TIPPING BUCKET  
ASSEMBLY INSIDE SENSOR**

Due to our policy of continual product improvement, specifications may change without notice.

Manufactured by:

**MTECH Systems Pty Ltd**  
2 Garden Boulevard, Dingley, Australia, 3172  
Ph: +61 395 518 333 Fax: +61 395 518 444  
Email: [sales@mtechsystems.com](mailto:sales@mtechsystems.com)  
<http://www.mtechsystems.com>