

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. The M1 version is standard and a high precision M2 version is available, with optional heating

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 250 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.



915-RG M1

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.

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

The M2 has an optional heater for cold climate application. A leaf catcher filter option prevents leaves and other debris from clogging the funnel.

Specifications: Rainfall Sensor 915-RG M1

BUCKET CAPACITY	0.2- 0.5 MM RAINFALL
CALIBRATION	FACTORY SET AT 0.2 MM/TIP (ADJUSTABLE)
RAIN GUAGE DIAMETER	203 MM
RECIEVING SURFACE AREA	325 SQR MM
ACCURACY	+4% UP TO 200 MM/HOUR
OUTPUT	40 MS SWITCH PULSE
LONG TERM STABILITY	< +/- 1mm
RATING	500 MA/15 VA
MOUNTING	LEVEL SURFACE
WEIGHT	4 KG NETT
DIMENSIONS	210 MM DIA 340 HIGH
OPERATING TEMPERATURE	-60 - +80 DEGREES C
PACKED DIMENSIONS	300 X 300 X 400 MM 6KG Packed.
FINISH:	
FUNNEL AND BASE	BAKED POLYURETHANE COATED ALUMINIUM
BARREL AND FRAME	STAINLESS STEEL
OTHER PARTS	PVC, STAINLESS STEEL, NICKEL PLATED BRASS.

Specifications: Rainfall Sensor 915-RG M2

BUCKET CAPACITY	0.2 RAINFALL
CALIBRATION	FACTORY SET AT 0.2 MM/TIP (ADJUSTABLE)
RAIN GUAGE DIAMETER	203 MM
ACCURACY	+1% UP TO 250 MM/HOUR
OUTPUT	50 MS SWITCH PULSE
LONG TERM STABILITY	< +/- 1mm
RATING	500 MA/15 VA
MOUNTING	LEVEL SURFACE
WEIGHT	5.5 Kg NETT
DIMENSIONS	300 h x 230 body dia x 280mm base dia.
OPERATING TEMPERATURE	-60 - +80 DEGREES C
PACKED DIMENSIONS	300 X 300 X 400 MM 8KG Packed.
FINISH:	
FUNNEL AND BASE	ANODISED ALUMINIUM
BARREL AND FRAME	STAINLESS STEEL
OTHER PARTS	PVC, STAINLESS STEEL, NICKEL PLATED BRASS.

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

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