

Datasheet

RIM-7499-BOM Rain Gauge

The RIMCO RIM-7499 range of siphon controlled tipping bucket rain gauges are professional instruments designed and constructed for long-term operation with minimal maintenance under all climatic conditions. All materials are corrosion resistant. These proven instruments are accurate to within 2% for rainfall rates up to 200mm/hr.

The RIM-7499-BOM comes with a higher specification funnel and calibration than the RIM-7499-STD standard version. RIMCO RIM-7499-BOM rain gauges are specifically manufactured to stringent requirements including those of the Australian Bureau of Meteorology, the Environment Agency (UK) and the Danish Meteorological Institute (DMI).

Rain falling on the 203mm collecting funnel is directed through a siphon control unit and discharges as a steady stream into a two compartment bucket mounted in an unstable equilibrium. As each compartment fills, the bucket tilts alternately about its axis. Each tip forces a contact closure by magnetic means corresponding to 0.2, 0.25 or 0.5mm of rainfall according to bucket capacity. A calibration certificate is supplied with every RIM-7499 rain gauge.

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Applications

- · General meteorology
- · Water resources studies
- Hydrology
- · Flood warning systems
- Automatic logging systems
- Remote and long-term logging deployments

Features

- Rugged and corrosion resistant construction
- · Minimal maintenance, 25 years+ deployment life
- · Low friction, non-seizing bucket bearings
- · Gold plated buckets for minimal retention
- · Dual reed-switch output
- · Stable calibration
- · Built-in bubble level
- Optional heater for operation below -30°C
- · Optional self-powered internal counter
- · Mounting pedestal available



Specifications

Collector

diameter 203mm (8") ± 0.2mm

Resolutions 0.2mm

0.25mm 0.5mm

(0.01" & 0.02" to special order)

Accuracy ±2% to 200mm/hr

±3% to 380mm/hr

Contacts Two normally open magnetically actuated

reed switches

Individual protection built-in

Reed-switch

rating 50V AC/DC @0.5A non-inductive

Closure

timing 50ms min

150ms max

Max bounce time 0.75ms up to 500mm/hr

Termination Screw termination (2.5mm²)

Heating

option 12 or 24V AC/DC (48W max) operation with

electronic thermostatic control

(P/N 7499-TCH)

Specify operating voltage at time of order

Data logger

option Several models available depending on

application requirements. Some data loggers may be installed within the body of the rain

gauge.







Dimensions

Height 300mm
Body diameter 230mm
Base diameter 280mm

Physical

Net weight 5.5kg Shipping weight 7.0kg

Packing carton 330x330x430mm

Materials

Collector Copper

Jacket Stainless steel
Base Cast marine grade

Aluminium

Bucket Gold plated brass
Bridge Anodized marine

Grade Aluminium

Switch holder Delrin®

Fasteners Stainless steel

Ordering Information

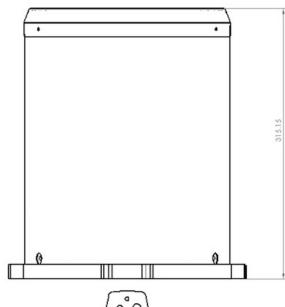
RIM-7499-020-BOM Rain gauge 0.2mm bucket
RIM-7499-025-BOM Rain gauge 0.25mm bucket
RIM-7499-050-BOM Rain gauge 0.5mm bucket
Order options as required

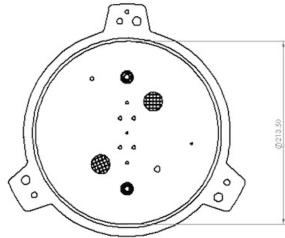
Note:

- RIM-7499-STD version is available for lower funnel collector specification.
- Non-siphon and imperial resolution versions are also available with differing accuracy specification.
- Other RIMCO rain gauge models are also available with 200cm2 (RIM-8500) and 300mm (RIM-8300).

Mounting

A rugged mounting pedestal that elevates the collection rim 1m above ground level (P/N 8000PED1).





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Solutions beyond expectations

Originating from the Netherlands, Observator has grown into an internationally oriented company with a worldwide distribution network and offices in Australia,

Germany, the Netherlands, Singapore and the United Kingdom.

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