



## OMC-210-2 Rain Gauge

The OMC-210-2 rain gauge is an instrument used to measure rainfall. It is designed and constructed for long-term operation with minimal maintenance under almost all climatic conditions.

All materials used are corrosion resistant. This proven instrument is accurate to within 3% for rainfall rates from 25mm/hr to 200mm/hr and better than 6% up to 500mm/hr (0.2mm version).

The OMC-210-2 may be mounted at ground level on a level slab or on the optional stand which elevates the collection rim to 1 meter above ground level. Other heights are available to order.

The OMC-210-2 rain gauges can also be supplied with siphon control which is better suited to heavy rainfall areas.

### Features

- Rugged and corrosion resistant construction
- Low friction, non-seizing bucket bearings
- Gold plated bucket for minimal retention
- Dual reed switch output (single on 0.1mm)
- Stable calibration
- Built-in bubble level
- Optional self-powered internal counter
- Heating option for operation below -30°C

### Applications

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



# SPECIFICATIONS

Collector Diameter	400 ± 1mm <sup>2</sup>
Resolutions	0.1mm, 0.2mm and 0.5mm
Accuracy	0.1mm version ± 3% over 25mm/hr to 100mm/hr ± 4% to 200mm/Hr. ± 7% to 500mm/Hr.  0.2 and 0.5mm versions ± 3% over 25mm/hr to 200mm/Hr. ± 6% to 500mm/Hr.
Contacts	Two normally open magnetically actuated reed switches for 0.1, 0.2 and 0.5mm
Switch Rating	50V ac/dc at 0.5A non-inductive
Closure Timing	50 milliseconds min; 150 milliseconds max; Max bounce time 0.75 milliseconds up to 350mm/Hr.
Termination	Screw termination (2.5mm <sup>2</sup> ) on the Reed Switch Holder
Dimensions	305mm height 250mm collection rim diameter 250mm body diameter 275mm base diameter
Physical	4.0kg net 7.0kg shipping weight 9.1kg cubic (airfreight) weight Standard shipping carton - 330mm x 330mm x 500mm nominal

Temperature	Operating 0° to +50°C (without heating) Storage -30° to +60°C
Humidity	Operating <10% to 100% Storage <0% to 100%
Precipitation	Operating: heavy rain, hail or snow Storage: accumulation of up to 15mm of freezing precipitation accompanied by wind gusts of 100km/hr.
Vibration	Operating: high, consistent with high winds Storage: high, consistent with shipping and handling.
Heater Option	12 or 24V ac/dc (48W max) operation with electronic thermostatic control
Data logger Option	Self powered data logger installed within the body of the rain gauge. USB port for configuration by and download to a PC (several versions)
Counter Option	Liquid Crystal 6 Digit Counter (self powered) installed within the body of the rain gauge (P/N 7499 LCD)
Ordering	OMC-210-2-01 0,1 mm bucket OMC-210-2-02 0,2 mm bucket OMC-210-2-05 0,5 mm bucket Order options as required

