



## OMC-212-2 Rain Gauge with heating

The OMC-212-2 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.

The OMC-212-2 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 measurement principle is based on a 'tipping bucket'. Each tip is detected by a magnet briefly closing a Reed contact. The 'tips' (closures of the Reed contacts) can be counted by an optional counter or data logger. The rain gauge does not need power, except for heating.

The OMC-212-2 rain gauges can also be supplied with siphon control which is better suited to heavy rainfall areas.

An unheated version, the OMC-210-2, is also available.

### Features

- Rugged and corrosion resistant construction
- Low friction, non-seizing bucket bearings
- Gold plated bucket for minimal retention
- Dual reed switch output
- Stable calibration
- Built-in bubble level
- Optional self-powered internal counter
- Unheated version OMC-210-2

### Applications

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



# OMC-212-2 Rain Gauge with heating

|                   |  |
|-------------------|--|
| Collector surface | 400 cm <sup>2</sup> ± 1 cm <sup>2</sup>  |
| Resolutions       | 0.1 mm, 0.2 mm and 0.5 mm  |
| Accuracy          | 0.1 mm version:<br>± 3% over 25 mm/hr to 100 mm/hr<br>± 4% to 200 mm/hr<br>± 7% to 500 mm/hr<br><br>0.2 and 0.5 mm versions:<br>± 3% over 25 mm/hr to 200 mm/hr<br>± 6% to 500 mm/hr |
| Contacts          | Two normally open magnetically actuated reed switches.   |
| Closure Timing    | 50 milliseconds min<br>150 milliseconds max<br>Max bounce time 0.75 milliseconds up to 350 mm/hr   |
| Termination       | Screw termination (2.5 mm <sup>2</sup> ) on the Reed Switch Holder   |
| Dimensions        | 340 mm height inc. adjusting bolt<br>238 mm collection rim outer diameter<br>238 mm body diameter<br>290 mm footprint diameter   |
| Physical          | 4.0 kg net<br>7.0 kg shipping weight<br>7.0 kg cubic (airfreight) weight<br>Standard shipping carton 315 mm x 315 mm x 420 mm nominal  |

|                    |  |
|--------------------|--|
| Temperature        | Operating -2° to +50°C<br>Storage -10° to +60°C  |
| Humidity           | Operating <10% to 100%<br>Storage <0% to 100%  |
| Precipitation      | Operating: heavy rain, hail or snow<br>Storage: accumulation of up to 15 mm of freezing precipitation accompanied by wind gusts of 100 km/hr |
| Vibration          | Operating: high, consistent with high winds<br>Storage: high, consistent with shipping and handling  |
| Heating            | 24 V AC/DC, max. 0.5 A, with thermostatic on/off control   |
| Data logger Option | Self powered data logger with GPRS modem installed within the body of the rain gauge. Refer to OMC-042 data logger.                          |
| Counter Option     | Liquid Crystal 6 Digit Counter (self powered) installed within the body of the rain gauge (P/N 7499 LCD)                                     |
| Ordering           | OMC-212-2-01 0.1 mm bucket<br>OMC-212-2-02 0.2 mm bucket<br>OMC-212-2-05 0.5 mm bucket<br>Order options as required                          |
| Unheated version   | Refer to OMC-210-2 data sheet  |

