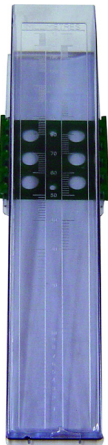


# Rain Gauge Product Info Sheet

Sontax Rain Gauges all vary considerably in shape and size. Variations between catchment areas and the size and taper of the collection area mean that the calibration spacings are different on each model. Because of these variations, pouring the contents of one model into another will result in very different measurement readings.

For reference, the larger the catchment area, the more accurate rainfall measurements can be obtained.

To help you understand a simple accuracy test can be performed for each Sontax Rain Gauge. Please see the calculations below based on weight:



**Code: 44610**

- Catchment area (Surface area) = 6.475cm x 6.0cm
- Volume of 1mm rain over this area = Catchment area x 0.1cm
- = 6.475 x 6.0 x 0.1cm = V3.89ml
- For 25mm of rainfall = 3.89 x 25mm = 105.75ml or 105.75 grams of water

To check accuracy of measuring cylinder, weigh out 105.75 grams of water and pour into cylinder. This should read 25mm of rain.



**Code: 44612**

- Diameter of Catchment area = 10.15cm
- Catchment area (Surface area) = 80.914cm<sup>2</sup>
- Volume of 1mm rain over this area = Catchment area x 0.1cm
- = 80.914 x 0.1cm = V8.0914ml
- For 25mm of rainfall = 8.0914 x 25mm = 196.38ml or 196.38 grams of water

To check accuracy of measuring cylinder, weigh out 196.38 grams of water and pour into cylinder. This should read 25mm of rain.



**Code: 44613**

- Diameter of Catchment area = 8cm
- Catchment area (Surface area) = 50.27cm<sup>2</sup>
- Volume of 1mm rain over this area = Catchment area x 0.1cm
- = 50.27 x 0.1cm = V5.027ml
- For 25mm of rainfall = 5.027 x 25mm = 125.68ml or 125.68 grams of water

To check accuracy of measuring cylinder, weigh out 125.68 grams of water and pour into cylinder. This should read 25mm of rain.