



Rain Gauge Monitoring System



The Harvest solar powered rain gauge monitoring system gives you the ability to collect and review real time data with absolute precision.

The Harvest industrial telemetry unit (ITU) is mounted in a stainless steel weather proof casing with solar panel, battery and charger. The Hydrological Services TB4 rain gauge is either mounted alongside the case or on the ground. The telemetry unit can be placed anywhere in the world where there is GSM or 3G cellular coverage and it will report real time data through to the Harvest website. For sites where there is no cellular coverage an Iridium satellite module can be fitted in place of the GSM/3G module.

Harvest currently have over 2000 telemetry loggers operating in 6 continents. Data is processed via multiple network paths to redundant servers in a fire and earthquake resistant server warehouse located outside Wellington, the capital city of New Zealand. Data is processed, backed up and published on the harvest.com website and can be forwarded through to the end user in either csv or xml format.

Hydrological Services TB4 Specifications:

Receiver: 200 mm + 0.3 diameter machined aluminium rim, powder coated

Bucket capacity: 0.2 mm or 0.01 inch of rainfall

Sensitivity: one tip

Measuring range: 0 to 500 mm / hr

Calibration accuracy: $\pm 2\%$ for intensities from 25 to 300 mm/hr, $\pm 3\%$ for intensities from 300 to 500 mm/hr
(can be calibrated to 1% for a specific intensity)

Humidity: 0 to 100 %

Temperature: - 20 to +70°C

Contact system: dual reed switches potted in soft silicon rubber with varistor protection

Syphon: made from brass with a non hydroscopic outer case

Bucket: chrome plated injection moulded ABS bucket balanced to ± 0.05 gms

Base: injection moulded non hydroscopic plastic

Level: bulls eye level fitted to base

Mounting holes: three 10 mm diameter mounting holes at 117 mm p.c.d. in feet moulded to outside diameter of base.

Drain fittings: to attach 12 mm inside diameter tubing, to catch rainfall after passing through buckets

Bucket pivot system: two stainless spring steel rolling bearings, clamped at 90 degrees to bucket. Stainless spring steel axle

Insect covers: stainless steel mesh on all openings to prevent insects and ants entering gauge

Outer enclosure: keyed to enable the release of the outer enclosure without the need for the removal of the three securing screws

Height: 330mm

Weight: 2 kg