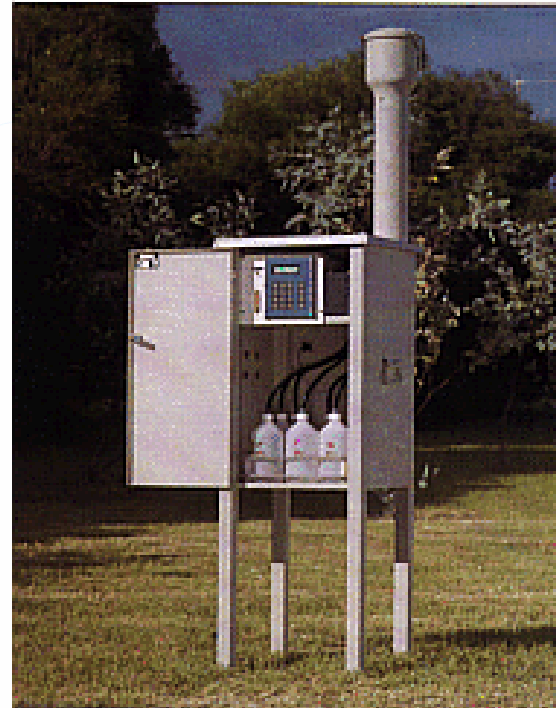


Model 200 Sampler Wet Only Rainwater Sampler

The Ecotech Model 200 Wet-Only Rainwater Sampler is used for acid rain experiments. The sampler has wetted surfaces composed of inert materials to ensure that there is no contamination of rainwater due to chemically labile species. A special version of Model 200 is also available specifically to sample snow and ice.

The sampler is 'wet-only' which means that it excludes deposition of dust and gases during dry periods. A tipping bucket precipitation gauge is used to initiate sampling. On-board software controls sampling episodes over a range of user specified intervals. In addition to collecting rainwater, the sampler acts as a rainfall pluviograph, producing data in a format that is directly exportable to most spreadsheet programs.

The inbuilt microprocessor controls all sampler operations and also acts as a data logger with on-board data storage capabilities. Alternatively, data can be collected on a PC or displayed directly on the inbuilt LCD.



Features

- Manufactured under license from CSIRO.
- Microprocessor controlled with on-board data collection and storage facilities.
- Wet-only sampler controlled by tipping bucket pluviograph.
- Composite or multi-bottle collection.

Stored Data

- Total rainfall for 24 hour period
- Total tips per collected sample bottle
- Start/stop date-time of rainfall occurrence and total rainfall during that period
- Data storage consists of lithium battery-backed RAM 2 kbytes capable of storing 150 events.

Applications

- Acid Deposition Studies
- Nutrient Input Studies
- Rainwater Quality Studies



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Specifications

Tipping bucket precipitation gauge requires 0.25 mm of rainfall in order to sample, (0.1 mm available as an option). A collection funnel is directed to the tipping bucket assembly.

The gauge is located in close proximity to the collector.

Accuracy or tipping bucket: +/- 1% for rates of 2 cm to 7 cm/hr
+/- 3% for rates of 15 cm/hr

Tipping bucket materials: Stainless steel

Sampler materials: All parts used are corrosion resistant, with two screens to prevent leaves and other debris from entering.

Sampler configuration: The sampler may be ordered as a discrete 8 bottle sampler or as a composite sampler.

Bottle Sizes (discrete): 8 x 500 ml or 8 x 1000 ml (specify)

Bottle Sizes (composite): 10 or 20 litres (specify)

Dry deposition protection: Automatic open/close cover on top of polypropylene funnel

Ambient temperature: 0 – 50 °C

Power: 12 Volt 7 amp-hr lead acid gel battery. Solar panel optional

Power Consumption: 0.65 watts (up to 60 days operation from a single charge)

Dimensions: 370 w x 1520 h x 370 d mm

Weight: 20 kg

Options

- Solar panel battery charger
- 240/110 V battery eliminator for mains power use.
- Heated rain gauge and sample inlet for use in snow and ice.



World Wide contact details
Ph: (+61) 1300 364 946
Fax: (+61) 1300 668 763
Email: ecotech@ecotech.com.au
Website: www.ecotech.com.au



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