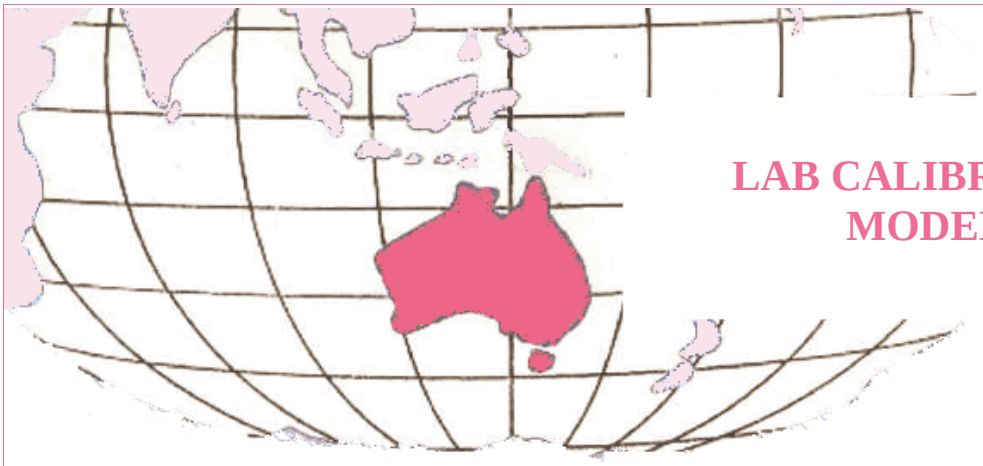
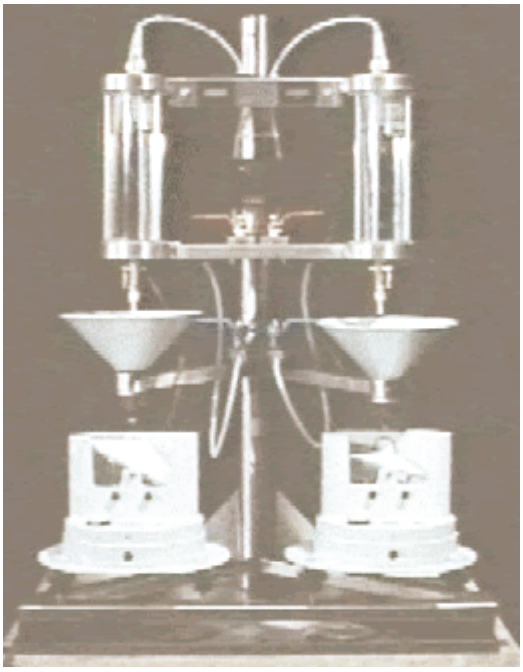


Bulletin 60,
Edition 1

LAB CALIBRATION UNIT
MODEL TB340



DESCRIPTION:

All Tipping Bucket Raingauges have been calibrated by Hydrological Services Pty. Ltd prior to despatch using the Model TB340: Calibration Unit.

It is a device that when connected to a water supply, will discharge a pre-set volume (653ml) of water through one or two Tipping Bucket Raingauges and display the number of tips.

ISO
9001

QUALITY SYSTEM
CERTIFIED

HYDROLOGICAL SERVICES PTY.LTD.
HYDROLOGICAL INSTRUMENTS & EQUIPMENT
DESIGNED AND MANUFACTURED
BY HYDROLOGISTS

RAINGAUGE CALIBRATION PROCEDURE:

1. The outer enclosure of the tipping bucket raingauge is removed before being placed on the mounting table. Whilst observing level on the raingauge, the levelling knobs are adjusted underneath the mounting table to level the raingauge.

2. The syphon is then removed from the enclosure of the tipping bucket raingauge and cleaned thoroughly. The syphon for Hydrological Services Tipping Bucket Raingauges can be screwed directly into the syphon coupling of the catch. For other gauges such as RIMCO and Monitor an adaptor may be required which are screwed into the coupling before the syphon. Hydrological Services supply these adaptors.

3. The alligator clamp of the lead is connected from the counter to the reed switch terminals of the raingauge. Manual movement of the bucket should produce one count per tip.

4. The tipping bucket raingauge should be positioned centrally under the syphon nozzle such that the water discharges evenly into each bucket.

5. The nut is then removed from the nozzle fitting. The appropriate nozzle is inserted and the nut replaced and tightened by hand.

6. The container is then filled with water. Before this is done, the outlet valve has to be closed, the breather valve must be opened, the buzzer switched on, and the appropriate inlet valve opened until the water level reaches the probe which activates the buzzer. The inlet valves, buzzer and breather valve are then turned off and the counter cleared.

7. Calibration is commenced by turning on the outlet valve and recording the number of tips after all the water is drained from the container. Refer to Calibration Specifications for the readings that should be obtained with gauges with 200mm or 203mm catch. For other size catches it will be necessary to calculate the theoretical number of tips.

8. The gauge is then adjusted to achieve the correct number of tips in accordance with manufacturer''s instructions.

9. This process is repeated for the various nozzles provided and a minimum of three runs is recommended for each nozzle.

10. Once calibrated the results should come within the ''acceptable range''.

APPLICATION:

1. A device used to calibrate tipping bucket raingauges features

2. Raingauges other than hydrological services'' can be calibrated, using an adaptor

3. Performance specifications have been set for the 200mm and 203mm catch

4. Nozzles for 25, 30, 100, 200,300 & 500 mm/hr

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