



*"Relied on Worldwide in the Most Extreme Conditions"*



## **Field Calibration Device User's Manual**



## Field Calibration Device

### FC-500

#### Contents

- 3 rods
- Container
- Black bag
- Nozzle
- Cleaning pin for nozzle
- Instructions

A quick and economical way to field test the accuracy of your TR-525 series rainfall sensors.  
Eliminates unnecessary down-time. Easy to use

## Calibration

1. Insert the 3 rods into the holes in the base, textured ends first.
2. Tighten air vent control knob (do not over tighten).
3. Remove nozzle and completely fill container with filtered purified water (slightly overfill, if needed).
4. Replace nozzle and tighten.
5. Rotate over nozzle side down on the collector (offset to one side, so not dripping directly in orifice).
6. Reset your counter, if using one.
7. Open air vent control knob by one complete revolution, you should see bubbles from bottom of metal tube. If not, you may need to gently shake unit to start it.



## Instructions for Adjustments

If your rain gauge does not fall within acceptable calibration ranges, we recommend that you repeat the calibration procedure at least once to eliminate the possibility of technical error. If after repeating the test your gauge is still out of calibration, use the following procedure for adjustment. Be sure to clean the nozzle after each use with the cleaning pin to ensure accurate calibration.

### Step # 1 Locate Adjustment Screws

Turn sensor upside down to locate the two adjustment screws. Remember, when adjusting the calibration of the rain gauge, both screws must be turned the same amount to keep the tipping bucket balanced.

### Step # 2 Adjust Calibration Screws

Keep sensor in the upside down position to adjust the set screws. To increase the reading of your rain gauge turn set screws clockwise (increases height of screw). To decrease the reading turn set screws counter clockwise. As a general rule, a  $\frac{1}{4}$  turn of both screws represents approximately 1 count (depending on model).

### Step #3 Re-calibrate to insure proper adjustment.