

General Description

The Precise TBRG Calibrator TW-271C is designed from the operational view point to perform the calibration procedure. It works with the tipping bucket rain gauge with the superiority on reliable calibration and easy field check. High resolution output for further data processing is immediately available.

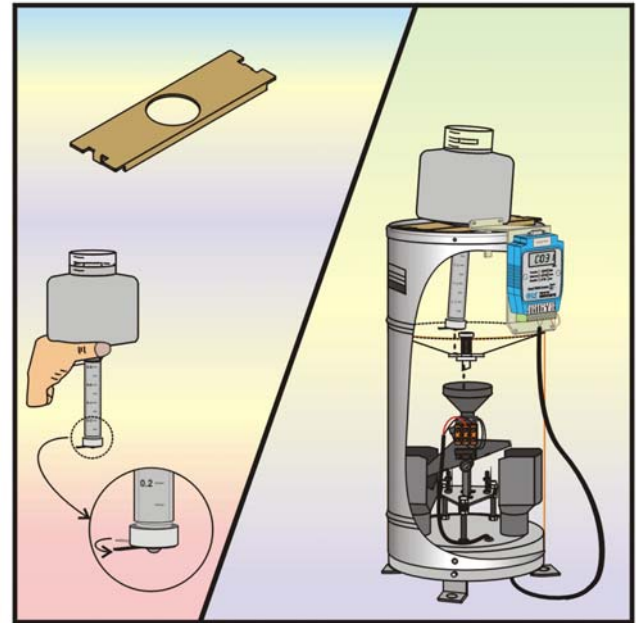
The precise TW-271C simplifies field checks of tipping bucket rain gauge. The foolproof design bottle with a bore to make the water spill from it and the preset volume of 785 ml equal to e.g. 50 tips could be discharged into the bucket gauge. The bottle without closure provides the greatest repeatability possible at same flow rate because it is no need to open the bottle for water pouring.

The dispenser at the bottom of cylinder consists of a handle to switch high, mid or low flow rates. When the water head falls sharply into the cylinder, the last tip occurs. Due to low water head leads to low flow rates which results in the longer tipping time. 0.1~0.9 tips which is equal to the remaining water in the bucket could be estimated by noting the graduation on the cylinder when the last tip produces a sound or by checking the last two intervals which is displayed on counter. Plus the total number of tips from counter e.g. 48 tips, then the value of high resolution say 48.7 could be obtained.

With less water for calibration to reach great accuracy in short time contributes to the much higher efficiency on the calibration of tipping bucket rain gauge.

Features

1. A "Last Tip" Cylinder with graduation for calibration data of high resolution.
2. Convenient switch to various flow rates for a full verification as in Lab.
3. Foolproof bottle for the preset volume, no need to measure water or convert to tips.
4. Calibration with less water in short time.
5. Low cost and easy operation for precise calibration.



Specifications

Bottle	114 mm (H) x Diameter 102mm
Cylinder	120mm (L) with dispenser and shutter
Support	210cm(L) x 60cm(W)
Material	PP for bottle and cylinder Stainless for handle and support plate
Flow rate	Around 50mm/hr, 150mm/hr and 300mm/hr handle switch
Volume	785ml water for 200mm diameter gauge with 0.5mm/tip, yield desired tips

Order information

Part No. / Specification	Receiver (mm)	Sensitivity (mm per tip)	Desired Tips	Total volume(ml)
TW-271C-1	200	0.5	50	785.4
TW-271C-2	200	0.254(0.01")	100	798.0
TW-271C-3	200	0.2	125	785.4
TW-271C-4	203	0.5	50	809.1
TW-271C-5	203	0.254(0.01")	100	822.1
TW-271C-6	203	0.2	125	809.1
TW-271C-7	159.6	0.2	200	800.0
TW-271C-8	208	0.254(0.01")	96.6	833.7

Preliminary edition, subject to correction.