

General Description

The Easy TBRG Calibrator TW-270C is designed from the operational viewpoint for easy field check on the calibration of tipping bucket rain gauge. To do the calibration in the field anytime is encouraged by cost-effective and easy-operating design.

The calibrator consists of a plastic bottle, a head orifice assembly, which provides the constant rate, and a support to hold the bottle. A carry bag is attached to make better suited for field use.

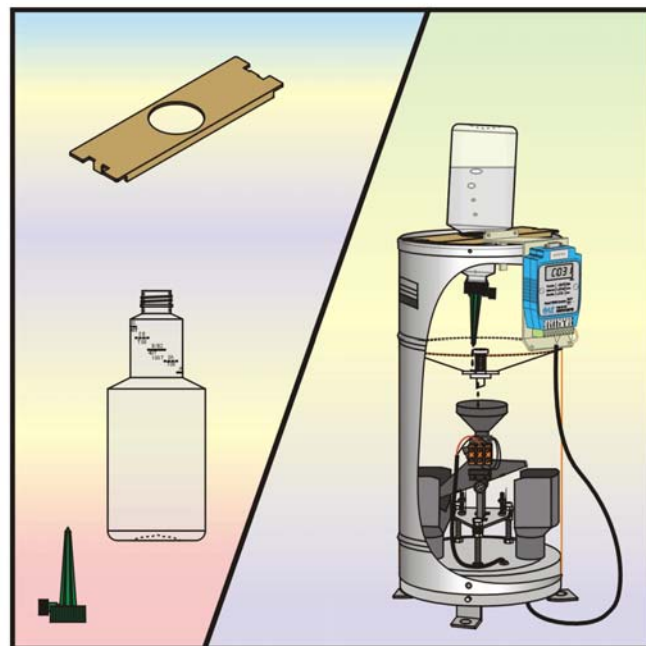
Water is poured according to specific fill line with graduation which are marked on the bottle. A measured amount of water, no need of tips conversion, can produce round number tips e.g. 100 tips for 0.01" tipping bucket rain gauge, or 125 tips for 0.2mm will be directed into the gauge. A round number tips is helpful in the error calculation, and the error could be attained without taking extra effort.

Screw the head orifice assembly onto the bottle, a constant flow rate can be maintained due to the special design of the head orifice assembly.

TW-270C is suggested to using with a counter or data logger so as to obtain the calibration data easily. It is advantageous to perform tests rapidly understandable. No special trained personnel or sophisticated component is required.

Features

1. Very Low cost and easy operation for basic calibration.
2. The preset volume of water is easily directed into the bottle by pouring the water aligning with the specific fill line in the foolproof bottle.
3. Desired tips are marked with fill lines. Tips conversion is avoided and the calculation mistake is reduced.



Specifications

Bottle	212 mm (H) x Diameter 95mm
Dispenser	80mm (L), constant flow rate
Support	210cm(L) x 60cm(W)
Material	PP for bottle and dispenser, stainless for support plate.
Flow rate	around 100mm/hr for gauges at 200mm receiver diameter
Volume	785ml ~ 848ml with 5 fill lines for various specific gauges

Graduation Table for various TBRG

Receiver (mm)	Sensitivity (mm per tip)	Desired Tips	Graduation (Fill line)	Desired volume (ml)
200	0.5	50	A	785.4
200	0.2	125	A	785.4
200	0.1	250	A	785.4
200	0.254(0.01")	100	A	785.4
203	0.254 (0.01")	100	E	822.1
203	0.5	50	D	809.1
203	0.2	125	D	809.1
203	0.1	250	D	809.1
200	0.254(0.01")	100	C	798
159.6	0.2	200	C'	800
208	0.254(0.01")	100	F	863.1
300	0.5	24	B	848.2

Preliminary edition, subject to correction.