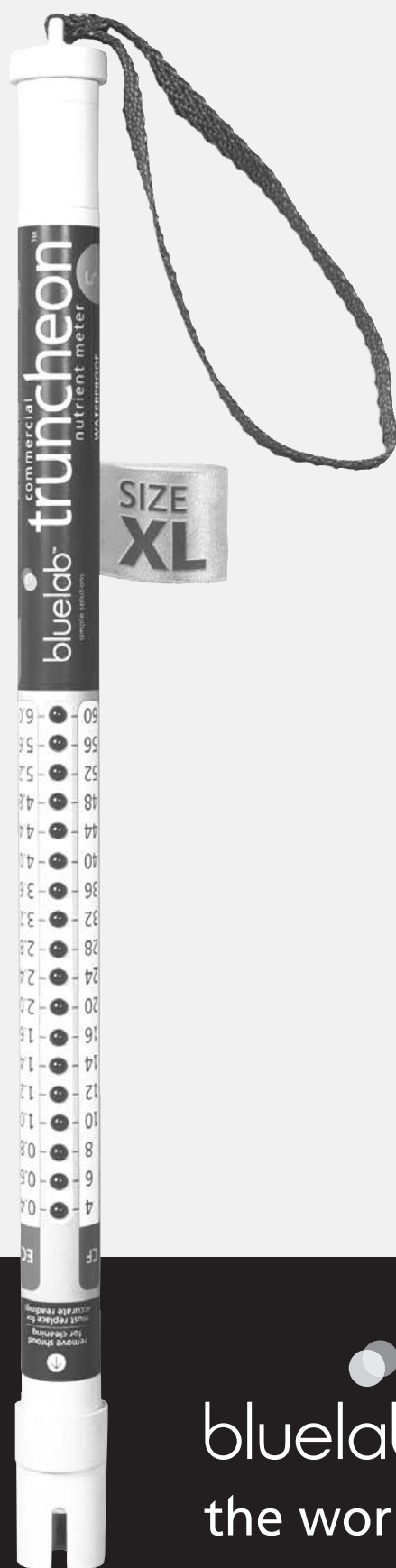


# Instruction Manual



## Features:

**provided with EC, CF and ppm scales**

**fully waterproof**

**fully guaranteed for 5 years**  
(with proof of purchase)

**no calibration required**

**auto turn on / off function**

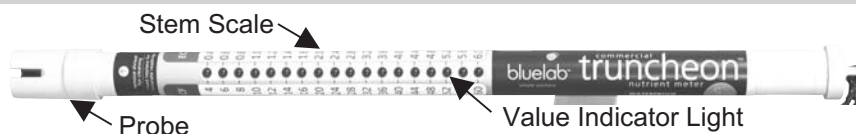
**commercial**  
**bluelab™ truncheon™**  
the world's favorite nutrient meter

[www.getbluelab.com](http://www.getbluelab.com)

## Operating Instructions

Using the Bluelab Commercial Truncheon to measure nutrient conductivity involves warming the probe sensor head in the solution, followed by measuring and reading conductivity values on the stem scale indicator light. Figure 1 shows the Bluelab Commercial Truncheon.

Figure 1. Commercial Truncheon

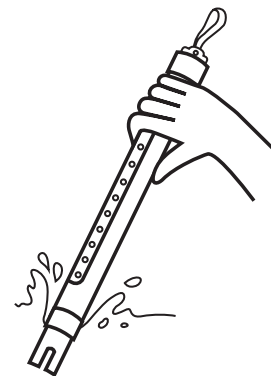


### 1 Warm Sensor Head

Place probe into nutrient solution for 1-2 minutes to reach the nutrient temperature.

### 2 Measure Conductivity

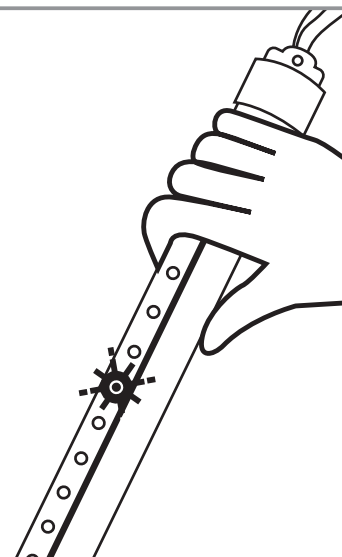
Briefly remove Truncheon from solution then place it back for 1-2 seconds.



### 3 Read Conductivity Values

Remove Truncheon from the solution and read indicator light values on stem.

Note: If the lights are dancing between two values, the reading is between those two values eg. lights dancing between '6' and '8' indicates a reading of '7'. You can also count the number of flashes between two values ie. '28' and '32', two flashes on the '28' light and then two flashes on the '32' light would indicate '30'.

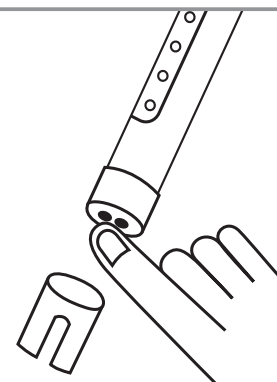


### 4 Obtain Another Reading

To take another reading, allow the Truncheon to switch off and then repeat the above procedure.

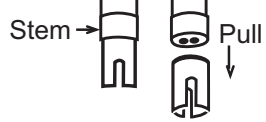
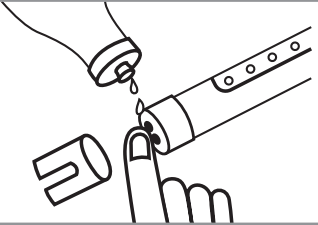
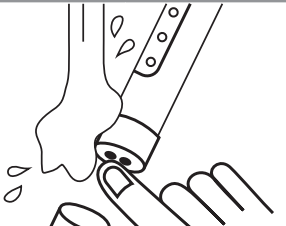

### 5 Clean Probe

The probe needs to be cleaned often, once every two weeks, according to the instructions on the following page.



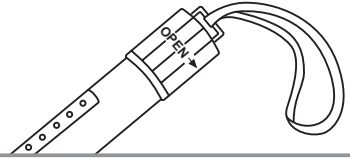

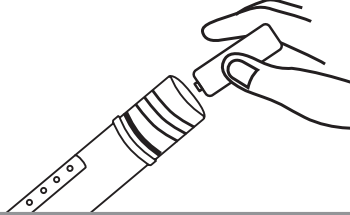

## Cleaning and Maintenance

Cleaning the Truncheon probe periodically ensures accurate readings. Cleaning includes using 'Jif', a trade name for a liquid scourer cream used in home bathrooms and kitchens. Similar products are called 'Liquid Vim' and 'Soft Scrub'. Scented varieties are never used as they affect the probe functions. Follow these steps to clean the probe.

<p><b>1 Remove Shroud</b> Dismantle by holding the body and pulling the shroud.</p>	
<p><b>2 Clean Probe Face</b> Place one or two drops of unscented liquid scourer, such as 'Jif' or 'Soft Scrub' on the probe face and rub with your finger or Bluelab Chamois firmly and vigorously, to clean the probe face.</p>	
<p><b>3 Rinse Probe</b> Rinse off all traces of cleaner under running water using the same finger or other side of Bluelab Chamois. Check that the water forms a film on the probe face with no 'beads' of water. If beading is present repeat the cleaning process.</p>	
<p><b>4 Replace Shroud</b></p>	

## Battery Replacement

The Truncheon is powered with 3 x AA type standard or alkaline batteries. Do not use rechargeable batteries. Do not mix brands of batteries. Do not mix old with new. Do not put upside down. Follow these steps to replace the batteries.

<p><b>1 Remove Old Batteries</b> Unscrew battery cap and tip out old batteries.</p>	
<p><b>2 Check for Corrosion</b> Batteries that have been inside the unit for a long length of time may corrode. Check battery contacts and batteries for any sign of corrosion. Contacts should be cleaned first if corrosion is found before proceeding to step 3.</p>	
<p><b>3 Fit New Batteries</b> Insert the new batteries positive (+) end down into the body.</p>	
<p><b>4 Replace Battery Cap</b> Screw on battery cap until there is no space left between the cap and body. This ensures the unit remains 100% waterproof.</p>	

## Troubleshooting

Trouble	Correction
Commercial Truncheon turns off before reading taken	Take out of solution for 3-5 seconds. Dip in solution again and take reading.
Commercial Truncheon not lighting when dipped in solution	Clean the probe (see page 2). If this is unsuccessful, replace batteries (page 2). 'Do not use rechargeable batteries'.
Commercial Truncheon gives low readings	Clean the probe (see page 2). Ensure unscented cleaner is used eg. plain 'Jif' / 'Soft Scrub' / 'Liquid Vim'.

## Technical Specifications

Range	4 – 60 CF    280 – 4200 ppm (EC x 700) 0.4 – 6.0 EC    200 – 3000 ppm (EC x 500)
Resolution	1 CF, 0.1 EC, 70 ppm 700, 50 ppm 500
Accuracy	± 4% of reading
Temperature Compensation	Automatic
Operating Temperature	0 - 50°C, 32 - 122°F
Calibration	Factory Calibrated
Auto Sense	Auto On and Auto Off
Power Source	3 x AA Alkaline Batteries

## Contact Details

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