

1. Specification

INPUT RANGE	0.00 PH TO 14.00 PH,
INPUT IMPEDANCE	10^{12} OHMS, <50mV / ° C, 1PA
RESOLUTION	0.01PH
CALIBRATION	4.00 & 7.00 PH
DISPLAY	4 DIGITS 0.5" 7 SEGMENT LED DISPLAY
POWER SUPPLY	230V AC
FREQUENCY	50/60Hz
INPUT CONNECTION	BNC FOR PH ELECTRODE
OPERATING TEMPERATURE	0 - 50 ° C (32 ° F TO 122 ° F) / 5 - 95 % Rh
OVER ALL DIMENSION	48(H) X 96(W) X 110(D) mm
CUT OUT DIMENSION	44(H) X 92(W) mm
WEIGHT	500 grams (Approx.)



2. Terminal Arrangement

**ELECTRODE
INPUT**



**SUPPLY
230V AC**

L	N	E
		

3. Operation procedure

1. Check the power supply for the proper phase , neutral and earth.
2. Proper conditional of the glass(combined) electrode must be done.(refer instructions of electrode maintenance)
3. Keep the main switch "OFF".
4. Connect the electrode BNC connector in the respective socket.
5. Now power "On"the instrument with 230V AC, 50 Hz, with good grounding. If grounding is not proper , connect separate lead from the earth terminal which is on the back terminal.
6. Switch "ON" the instrument.
7. Take a fresh buffer solution of 7.00 pH dip the electrode in the solution after thoroughly washing the electrode with distilled water and drying with filter or tissue paper. If it is not a correct 7.00pH read, adjust the front "7.00" pot using small screw driver to bring the required i.e., 7.00.
7. Take a fresh buffer solution of 4.00 pH dip the electrode in the solution after thoroughly washing the electrode with distilled water and drying with filter or tissue paper. If it is not a correct 4.00pH read, adjust the front "4.00" pot using small screw driver to bring the required i.e., 4.00.
8. Take a sample unknown solution and dip the electrode in the solution after thoroughly washing the electrode with distilled water and drying with filter or tissue paper.



4. Instruction for electrode

The Combined Electrode is Combination of Glass Electrode and Reference Electrode in a single entity.

When the electrode is in use or in storage the reference solution drops down, it should be filled with freshly prepared 2M Potassium Chloride solution saturated with Silver Chloride through a filling hole provided below the Electrode Cap (Not applicable for Glass Electrode).

PREPARATION FOR USE :

Shake the Electrode gently to ensure that the internal solution covered the whole membrane and no air bubbles are interrupted. Soak the Glass Bulb in distilled water or 4.00 pH buffer for over night. Rinse the bulb in distilled water a number of times before use. A white bottom cap is provided for Gel-filled Combined Electrode and Un-breakable Electrodes, which should be removed gently. This cap is filled with saturated KCl to make the Electrode ready to use.

MAINTENANCE :

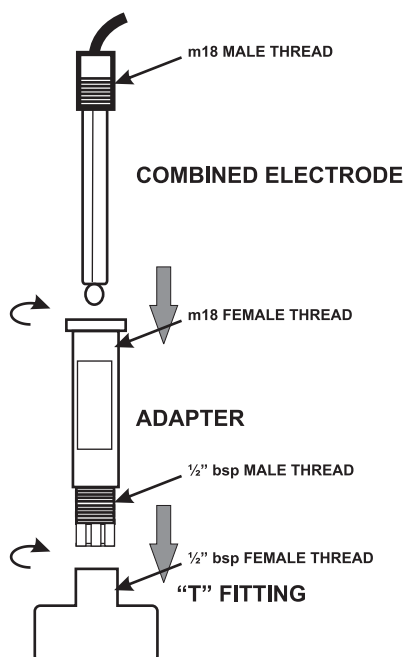
The Electrode should be cleaned every time by rinsing with distilled water (don't use ordinary tap water). Sticky solution may be removed by wiping the electrode with a moist pad of cotton. In an event of prolonged storage the outer surface of the bulb may remain dry, for reuse the electrode must be soaked in 4.00 pH buffer for 24 hours. the Electrode, which fails to respond to the above treatment, can be further activated by dipping in N/10 HCl for 2 hours and wash with distilled water thoroughly. For prolonged storage Gel-filled and Unbreakable Gel-filled, fill the bottom cap with Saturated KCl. So that the Bulb and Gel will not remain dry and can be used without soaking.

Reference Electrode solution is Saturated KCl.

PRECAUTION :

Don't use Electrode beyond the pH and Temperature Range, permanent damage may occur if used beyond the range.

⚠ Caution : Electrode will get permanently damaged if wrong solution are used.



For further clarification kindly contact us.



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