



# **MICROPROCESSED pH METER**

## **TEC-11/EL-M**

Used to measure pH of up to 11 samples simultaneously and conveniently.

## Technical Characteristics

### TEC-11/EL-M

- Equipment used in soil fertility laboratories to assist in the reduction and determination of acidity conditions to the established level of cations (Ca, Mg and K) and anions (P) that are available to plants. The availability of nutrients for plants is related to soil pH .;
- Working range: 0 to 14 pH (limits -2 to 16 pH) with BNC connection;
- . - Resolution 0.01 / Accuracy  $\pm 0.01$  + solution/electrode/calibration error;
- - Input Impedance: > 1 Tera ohms;
- - Instrument Deviation: < 80  $\mu\text{V}/^\circ\text{C}$ ;
- - Input Polarization Current: < 15 pA;
- - Permanent memory: for recording programmable parameters and calibration;
- . - 16x2 blue background LCD display;
- - On/off function: through the front panel through Stand-by function;
- - Manual selector switch: 110/220VAC 50/60Hz;
- Energy cable: - Power cable with three-pole connection (with ground wire) standard NBR 14136:2002;
- - Power: 14W;
- . Manual adjustment of the internal response parameter for electrodes with and without ion barrier;
- Maximum environmental conditions: 10 to 50  $^\circ\text{C}$  at 80% RH;
- Cabinet dimensions: 240 x 140 x 150 mm;
- Support dimensions: 800 x 253 x 420 mm;
- Distance between electrodes: 61 mm;
- Bracket structure: 304 stainless steel, aluminum electrode bracket with black nylon handle and M8 feet;
- Accompanies: - 01 TEC-11 MP Meter - 10 or 11 glass electrodes (annular) (to be defined) - 01 RS232 serial cable (optional USB Serial converter cable cod. 3988) - 10 BNC connection terminals - 01 TECNAL pH 7.00 buffer solution - 01 TECNAL buffer solution pH 4.00 - 01 TECNAL pH support for 11 tests - 01 instruction for product verification as - 01 CD-ROM containing Software compatible with Windows XP/2000 for purchase on a computer compatible with IBM/PC and Warranty and Quick Reference;

## Benefits and Advantages

- Control box in engineering plastic with LCD display
- Work with 11 simultaneous electrodes for quick practicality
- Data output via Serial RS 232
- Support for lifting sensors to facilitate the work
- Support with stainless steel 304 grips for 11 tests
- Connection of sensor cables via BNC connector with cable with mesh that ensures good insulation and electrical protection against electrical noise
- Proximate reading accuracy
- 127V or 220V power input selection switch
- Work at 50/60Hz
- Versatility in the use of electrodes: Mettler/Digimed/Sensorglass chargeable or non-chargeable
- Allows sensor reading integrity diagnostics by comparative methods
- Permanent memory, can store calibration data and records
- Rigid Quality Control, in which checks and tests guarantee the perfect functioning of the equipment, providing safety and client satisfaction
- Client service, to answer questions and provide explanations about the equipment and methodologies. Possibility of adaptations according to the needs of the client, makes the equipment already in line a special equipment.