

## Operating Instructions for Probe LE703

This Conductivity Measuring Cell utilizes the 4-pole potentiometric method for measuring conductivity, which incorporates a series of four graphite poles embedded in the probe shaft. This design completely eliminates the polarization, which frequently occurs with the 2-plate amperometric method during measuring high conductivity solution.

Furthermore, combined temperature sensor makes LE703 automatic temperature compensating.

It is a general probe, good for lab use.

Order Number:  
51340335

### Operating Instructions

For optimum performance, use the following operating procedures:

1. Remove all packaging material from probe before use.
2. To prevent carry-over from solution to solution, rinse the probe with distilled water between measurements.
3. When measuring, make sure the solution is above the cell chamber.
4. Ensure the cell chamber is free of bubbles when measuring.

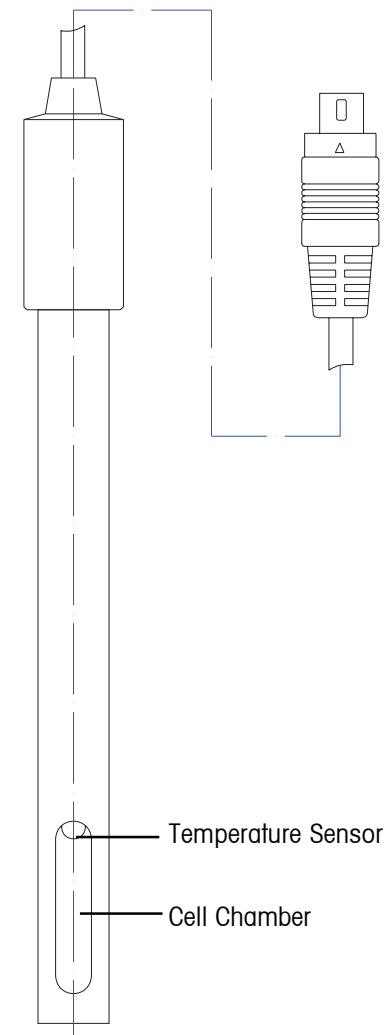
5. Allow sufficient time for the probe to stabilize when measuring samples at different temperatures.
6. The probe is not recommended for low conductivity solutions. ( $<10 \mu\text{S/cm}$ )
7. Clean the probe with distilled water after use.
8. For calibration and measurement procedures, refer to the instruction manual supplied with conductivity meter.

### Reagents and Supplies

- 1413  $\mu\text{S/cm}$  conductivity standard
- 250 ml bottle, order No. 51300138
  - Pack of 30 sachets, order No. 51302049
- 12.88 mS/cm conductivity standard
- 250 ml bottle, order No. 51300139
  - Pack of 30 sachets, order No. 51302050

### Precautions and Limitations

1. Do not expose the sensor to organic solvents, either when cleaning or when taking measurements.
2. Do not use the probe outside the recommended temperature range.
3. Specification and performance of this probe is guaranteed only when used with the appropriate model of Mettler-Toledo conductivity meter.



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