

## Operating Instructions for Lab conductivity sensor LE740

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Subject to technical changes and to the availability  
of the accessories supplied with the instruments.

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\* 1 2 1 0 7 0 9 3 \*

1. Remove all packaging material from sensor before use. Retain the quality certificate and the operating instructions for reference.
2. To prevent carry-over from solution to solution, rinse the sensor 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. To reduce air bubbles, immerse the sensor at an angle and then rise to vertical position. Remaining small bubbles can be removed by gently tapping against the sensor shaft.
5. Allow sufficient time for the sensor to stabilize when measuring samples at different temperatures.
6. A flow cell (ME-51302257) may also be needed for accurate work on low conductivity solutions to exclude the contamination by CO<sub>2</sub> or to save precious sample.
7. Clean the sensor with distilled water after use and keep it dry when not in use.
8. If there is a build-up of solids inside the cell chamber, carefully remove it with a cotton wool bud soaked in detergent solution, and then rinse the probe with distilled water.
9. Ensure the cable connectors free of moisture and dirt.

10. For calibration and measurement procedures, refer to the Instruction manual supplied with conductivity meter.

11. In general, measurement using stirred samples is preferred.

### Order No.

51340336

### Specifications

Conductivity range: 0.01...500 $\mu$ S/cm  
Temperature range: 0...60°C  
Cable: 1m  
Connector: Mini-DIN  
Shaft length: 120mm  
Shaft diameter: 12mm

### Storage

Rinse or clean sensor after use, store dry.

### Reagents and Supplies

84 $\mu$ S/cm conductivity standard  
- 250 ml bottle, order No. 51302153

### Precautions and Limitations

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

