Model SC72 Personal Conductivity Meter  Quick Manual

This manual briefly describes setup, measurement, and routine maintenance procedures for the Model SC72 Personal Conductivity Meter. Before using this meter, read Instruction Manual (IM 12D03D02-01E).

Key switches

When meter is OFF, press for at least 1 sec. to turn on power. When meter is ON, press for about 2 sec. to turn off the power. Automatic Power OFF function default: 20 min. inactivity.

If you press this key during measurement, (FF) mark flashes, and present measured values are held. To cancel, press or keys.

If pressed during measurement, (FF) mark flashes. Press key to store measured values in memory.

To abort data storage and return to MEAS mode, press or key again while (FF) mark is flashing.

Display (faint color display for flashing state)

Flashing state: Lit up state: All display elements shown ON

Battery life indicator
Lit or flash when storing measured values or displaying stored data.
Lit when setting cell constant.

Press to start measurement mode. If already in MEAS mode, it switches the display panel.
If pressed while in MEAS mode, switches to function mode. Also used to enter set value.
Change set value.

List of items in function mode

<table>
<thead>
<tr>
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<td>Set Auto Power Off interval</td>
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<td>bZo</td>
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<td>SC.U</td>
<td>Set measurement unit</td>
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<td>tFU</td>
<td>Set temperature unit</td>
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<td>VEr</td>
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<td>dFLG</td>
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1. Preparation for Measurement (refer to IM 12D03D02-01E, Chapter 2)

(1) Install Battery
(When first purchased, when replacing batteries, or when meter has not been used for an extended period of time.)

(1) Loosen the screw holding the battery box cover using a coin or similar object.
(2) Remove the battery box cover, and then install the batteries observing polarity diagram inside.
(3) Make sure the gasket on the inside rim of the battery box is free of foreign material.
(4) Put the cover back on. Insert the tabs on the top of the cover into the slots at an angle of at least 45° and lower the cover into position.
(5) Press the both ends of the cover down with your fingers and tighten the screw to fix the cover onto the unit using a coin or similar object. Note: Do not attempt to tighten further when you feel resistance before the cover is fastened in place. Loosen the screw once and retighten.

(2) Connect Sensor Cable (when not connected)
When connecting sensor cable, tighten by turning only the silver locknut, do not turn cable or waterproof cover.

Display Character Table

<table>
<thead>
<tr>
<th>Alphabet</th>
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* Alphanumeric are represented as follows on the LED display.

(3) Set Date and Time (only when purchased or after replacing batteries)
(4) Set Temperature Unit (only for °C)
(5) Set Cell Constant (refer to IM 12D03D02-01E, Sec. 2.5)
(6) Set Temperature Compensation Coefficients (refer to IM 12D03D02-01E, Sec. 2.6)
2. Measurement (refer to IM 12D03D02-01E, Chapter 3)
Measuring liquid’s temperature should be between 0 and 80°C.
To fix the measuring range, see IM 12D03D02-01E, Sec. 4.3, Item (3).
- How to immerse the sensor.
- Measurement display
  When the sensor is immersed into the measuring liquid, the conductivity value is displayed. Each time
  the key is pressed, the display toggles among the three display types shown below.

3. Maintenance
- Washing Sensor (refer to IM 12D03D02-01E, Sec. 5.2)
  After the measurement, rinse the sensor with clean water (for example, tap water) to remove stains.
- Calibration with Standard Solution
  If sensor is not clean after long time use, use standard solution and recalibrate the conductivity meter to
  check if cell constant is normal.
- Replacing Batteries (when is flashing) (Refer to IM 12D03D02-01E, Sec. 2.1)
  When replacing batteries, replace both batteries at the same time.
  After replacing, reset the time.
- Replacing O-rings and gaskets (refer to IM 12D03D02-01E, Sec. 5.5)
  If sensor conntector O-ring or battery box gasket
  become dirty or damaged, waterproofing is not assured. Then replace to new ones.

4. Error Messages (refer to IM 12D03D02-01E, Sec. 6.2)

5. Storage (refer to IM 12D03D02-01E, Sec. 5.5)
- Wash sensor with water before storing
- Leave sensor connected to meter to keep connector clean.
- Remove batteries from meter if it is to be stored for long time.