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VOLTCRAFT LWT-100

VOLTCRAFT LWT-100 (TDS) Conductivity Meter User Manual

Model: LWT-100

1. PRODUCT OVERVIEW

The VOLTCRAFT LWT-100 is a high-quality conductivity meter designed for rapid determination of conductivity, salinity, and Total Dissolved Solids (TDS) values in various liquids. Featuring a superior graphite measuring cell and IP67 water resistance, this device ensures accurate and reliable measurements in demanding environments.



Figure 1: Front view of the LWT-100 Conductivity Meter. The device features a clear digital display showing conductivity and temperature readings, along with intuitive control buttons for navigation.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to do so may result in injury or damage to the meter.

• Do not immerse the entire device in water beyond its IP67 rating. The measuring cell is designed for liquid contact, but the main body should be protected from excessive moisture.

- Avoid dropping the device or subjecting it to severe impacts.
- Do not attempt to open or repair the device. Refer all servicing to qualified personnel.
- Keep out of reach of children.
- Clean the measuring cell carefully as described in the Maintenance section.

3. PRODUCT COMPONENTS

The VOLTCRAFT LWT-100 package typically includes:

- 1 x VOLTCRAFT LWT-100 Conductivity Meter
- User Manual (this document)



Figure 2: Back view of the LWT-100 Conductivity Meter. The rear label provides essential product information, including the model name, measurement range, and serial number.

4. SETUP

The VOLTCRAFT LWT-100 is designed for immediate use. It operates on an internal power source and does not require user-replaceable batteries. Follow these steps for initial setup:

- 1. **Unpacking:** Carefully remove the meter from its packaging.
- 2. Initial Inspection: Check the device for any visible damage. If damaged, do not use and contact

customer support.

- 3. **Power On:** Press the power button (usually indicated by a power symbol or a specific button on the front panel) to turn on the device. The display should illuminate.
- 4. **Self-Test:** The device may perform a brief self-test upon startup. Wait for the display to show stable readings or a ready indicator.

5. OPERATING INSTRUCTIONS

The LWT-100 allows for quick and accurate measurement of conductivity, salinity, and TDS. Ensure the measuring cell is clean before each use.



Figure 3: Close-up of the LWT-100 display. The screen clearly shows the measured conductivity in microSiemens (μS) and the corresponding temperature in degrees Celsius (°C).

5.1 Taking a Measurement

- 1. **Prepare Sample:** Ensure the liquid sample is at a stable temperature and free of large particles that could obstruct the sensor.
- 2. **Immerse Sensor:** Carefully immerse the graphite measuring cell (located at the bottom of the device) into the liquid sample. Ensure the sensor is fully submerged and no air bubbles are trapped around it.
- 3. **Read Display:** Wait for the reading on the display to stabilize. The device will show the conductivity value (e.g., in μS/cm or mS/cm) and the temperature.
- 4. Record Data: Note down the measured values as needed.
- 5. **Clean Sensor:** After each measurement, rinse the measuring cell with distilled or deionized water to prevent contamination and residue buildup.

5.2 Changing Measurement Modes (if applicable)

The LWT-100 can measure conductivity, salinity, and TDS. Use the designated mode button (refer to the button labels on your device, typically indicated by an arrow or 'MODE' symbol) to cycle through the available measurement modes. The active mode will be indicated on the display.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your VOLTCRAFT LWT-100.

- Cleaning the Measuring Cell: After each use, rinse the graphite measuring cell thoroughly with distilled or deionized water. For stubborn residues, gently wipe the electrodes with a soft, lint-free cloth. Do not use abrasive materials or harsh chemicals.
- Cleaning the Device Body: Wipe the exterior of the device with a soft, damp cloth. Do not use solvents or strong detergents.
- **Storage:** Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the measuring cell is clean and dry before storage.
- Calibration: While the LWT-100 is designed for high accuracy, periodic calibration with known conductivity standards may be required for critical applications. Refer to specific calibration instructions if provided with your device or consult VOLTCRAFT support.

7. TROUBLESHOOTING

If you encounter issues with your LWT-100, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not turn on.	Internal power source depleted or fault.	Ensure the power button is pressed firmly. If the issue persists, contact customer support.
Inaccurate or fluctuating readings.	Dirty measuring cell; air bubbles around sensor; sample contamination; sensor damage.	Clean the measuring cell thoroughly. Gently tap the device to dislodge air bubbles. Use a fresh, clean sample. If problem persists, sensor may be damaged; contact support.
Display shows error message.	Out of range measurement; internal fault.	Ensure the sample's conductivity is within the device's specified range. Turn the device off and on again. If the error persists, contact customer support.

8. Specifications

Feature	Specification
Model Number	1720718 (VC-8603590)
Manufacturer	VOLTCRAFT
Dimensions (L x W x H)	2.8 x 5.4 x 10.8 cm

Feature	Specification
Weight	200 Grams
Ingress Protection (IP) Rating	IP67 (Waterproof)
Measuring Cell Type	High-quality Graphite
Power Source	Internal (Manually Powered)
Country of Origin	Germany

9. SUPPORT INFORMATION

For technical support, warranty claims, or spare parts availability, please contact VOLTCRAFT customer service. Refer to the official VOLTCRAFT website or your purchase documentation for contact details. Spare parts availability: 1 Year.

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Related Documents - LWT-100

VOLTCRAFT

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