

Aoleaby CCT-3320

Aoleaby CCT-3320 Conductivity/Resistivity Online Analyzer Controller

USER MANUAL

1. Introduction

This manual provides comprehensive instructions for the Aoleaby CCT-3320 Conductivity/Resistivity Online Analyzer Controller. This device is engineered for precise measurement of conductivity in various liquid environments, offering high accuracy and ease of use for industrial and scientific applications. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. Product Overview

The CCT-3320 series offers reliable performance for monitoring conductivity. Key features include:

- **High Precision:** One-touch synchronous conductivity measurement with minimal error for accurate and reliable data.
- **Sturdy and Durable:** Constructed from robust materials for long-term stable performance.
- **Versatile Application:** Suitable for measuring conductivity in pure water, high-conductivity liquids, and ordinary fluids.
- **User-Friendly Operation:** Simple controls with clear, easy-to-read data display requiring no complex setup.
- **Compact Design:** Small footprint for convenient installation and use.



Figure 2.1: Front panel of the Aoleaby CCT-3320V Conductivity Monitor, featuring a digital display and three control buttons for easy operation.

3. Technical Specifications

The following table details the technical specifications for the CCT-3300 series models, including CCT-3320, CCT-3320T, and CCT-3320V.

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Figure 3.1: Detailed comparison of technical specifications for CCT-3320, CCT-3320T, and CCT-3320V models, including measurement range, display mode, accuracy, temperature compensation, electrode configuration, signal output, overall dimensions, and working power supply.

Table 3.1: CCT-3300 Series Specifications Overview

Parameter	CCT-3320	CCT-3320T	CCT-3320V
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Parameter	CCT-3320	CCT-3320T	CCT-3320V
Measurement Range	0~2000 $\mu\text{S/cm}$, divided into three ranges: 0~20.00 $\mu\text{S/cm}$, 0~200.00 $\mu\text{S/cm}$, 0~2000 $\mu\text{S/cm}$	0~20, 0~200, 0~2000 $\mu\text{S/cm}$	0~2000 $\mu\text{S/cm}$, divided into three ranges: 0~20.00 $\mu\text{S/cm}$, 0~200.00 $\mu\text{S/cm}$, 0~2000 $\mu\text{S/cm}$
Display Mode	3 1/2-digit, 0.5" LCD direct reading of conductivity (with backlight display)	3 1/2-digit backlit LCD display	LCD direct reading of conductivity
Measurement Accuracy	$\pm 2\%$ (FS)	$\pm 1.5\%$ (FS)	$\pm 1.5\%$ (FS)
Temperature Compensation	Automatic temperature compensation, reference temperature 25°C, compensation range 0~60°C	Automatic temperature compensation, reference temperature 25°C, compensation range 0~60°C	Automatic temperature compensation, reference temperature 25°C, compensation range 0~60°C
Electrode Configuration	1.0cm ⁻¹ plastic foil gold electrode, 4' pipe threaded connection, wire length 5m	1.0cm ⁻¹ platinum black plated electrode	1.0cm ⁻¹ plastic foil gold electrode, pipe threaded connection, wire length 5m
Signal Output	4~20mA current signal (optional conductivity upper limit alarm output)	Non-isolated 4~20mA current loop	4~20mA current signal
Overall Dimensions	Panel size: 100×52mm, Cutout size: 91×45mm, Instrument depth: 100mm	48×96×100mm (Height×Width×Depth)	Panel size: 100×52mm, Cutout size: 91×45mm, Instrument depth: 100mm
Working Power Supply	AC220V $\pm 10\%$, 50Hz	AC220V $\pm 10\%$, 50Hz	AC220V $\pm 10\%$, 50Hz

Additional Specifications:

- **Testing Voltage:** DC12V; DC24V; AC110V; AC220V
- **Conductivity Range:** 0-2000ppm; 0-2000s/cm
- **Package Dimensions:** 0.39 x 0.39 x 0.39 inches
- **Item Weight:** 14.1 ounces

4. Installation and Setup

Proper installation is crucial for accurate and reliable operation of the CCT-3320 controller. Follow these guidelines carefully.

4.1. Mounting

The controller is designed for panel mounting. Ensure adequate space for ventilation and access to wiring terminals. Refer to the dimension diagrams below for cutout requirements and overall size.



Figure 4.1: Overall dimensions of the CCT-3300 series controller, with a front panel size of 96mm x 91mm and a depth of 80mm, indicating cutout and instrument depth requirements for installation.

Figure 4.2: Overall dimensions of the CCT-3300 series controller, with a front panel size of 95mm x 47mm and a depth of 43mm, indicating cutout and instrument depth requirements for installation.

4.2. Electrical Connections

Connect the power supply (AC220V $\pm$ 10%, 50Hz) to the designated terminals. Ensure all connections are secure and comply with local electrical codes. Incorrect wiring can damage the device or pose safety risks.

4.3. Electrode Connection

Connect the conductivity electrode to the controller. The CCT-3320 model typically uses a 1.0cm⁻¹ plastic foil gold electrode with a 4' pipe threaded connection and a 5m wire length. Ensure the electrode is properly immersed in the liquid to be measured and that the connection is tight to prevent signal interference.

5. Operation

The CCT-3320 features a user-friendly interface for straightforward operation.

5.1. Power On

Once properly installed and wired, apply power to the unit. The LCD display will illuminate, showing the current conductivity reading.

5.2. Reading Display

The 3 1/2-digit, 0.5" LCD provides a direct reading of conductivity. The display includes a backlight for visibility in various lighting conditions. The unit will automatically compensate for temperature variations within its specified range (0-60°C).

5.3. Basic Controls

Use the control buttons (typically labeled with arrows or function symbols on the front panel) to navigate menus or adjust settings if available. For advanced settings, calibration procedures, or specific alarm configurations, refer to the detailed operational guide that may accompany your specific model variant.

6. Maintenance

Regular maintenance ensures the longevity and accuracy of your CCT-3320 controller.

6.1. Cleaning

Periodically clean the controller's exterior with a soft, damp cloth. Do not use abrasive cleaners, strong detergents, or solvents, as these can damage the display or casing.

6.2. Electrode Care

The conductivity electrode should be kept clean and free from deposits. Refer to the electrode manufacturer's instructions for specific cleaning and storage procedures. Regular calibration checks are highly recommended to maintain measurement accuracy over time.

7. Troubleshooting

This section provides solutions to common issues you may encounter with your CCT-3320 controller.

7.1. No Display or Power

- Check all power supply connections to ensure they are secure.

- Verify that the power source is active and providing the correct voltage (AC220V $\pm$ 10%, 50Hz).
- Inspect the power cable for any visible damage.

7.2. Inaccurate or Unstable Readings

- Ensure the electrode is clean and properly immersed in the liquid.
- Check electrode connections for looseness, corrosion, or damage.
- Perform a calibration check using known standard solutions.
- Verify that the temperature compensation setting is appropriate for the application's temperature.
- Ensure there are no air bubbles trapped around the electrode.

7.3. No Signal Output (4-20mA)

- Check the wiring for the 4-20mA output to ensure correct polarity and secure connections.
- Verify that the connected receiving device (e.g., PLC, recorder) is functioning correctly and configured to receive the signal.
- Ensure the controller is powered on and operating normally.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact customer support.

8. Warranty and Support

For detailed warranty information regarding your Aoleaby CCT-3320 Conductivity/Resistivity Online Analyzer Controller, please refer to the documentation provided at the time of purchase or contact your seller directly.

For technical support, service inquiries, or to report any issues, please contact Aoleaby customer service through their official channels. When contacting support, please have your model number (CCT-3320) and purchase details readily available.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question