[LAB] Tester: Zoyi ZT-DQ02 LCR

- Manual
- Firmware
- Software PC

Firmware Upgrade

1. While the device is powered off, press and hold the X/D/Q key, then simultaneously press the power button until the screen displays “USBBoot.”
2. Connect the device to a computer using a TYPE-C data cable. The computer will recognize it as an LCR disk.
3. Copy the prepared firmware upgrade file into the LCR disk. The device will automatically start the upgrade process. Do not perform any operations during the upgrade.
4. Once the upgrade is complete, the screen will automatically switch to the measurement interface, indicating a successful upgrade.

Battery Charging

Cuando el icono de la batería muestra solo 2 rayas rojas es momento de cargar la batería interna. Seguir estos pasos:

1. Insert the included TYPE-C data cable and connect it to a DC 5V output adapter to charge.
2. During normal charging, the charging indicator light will be red.
3. Once fully charged, the charging indicator light will turn green.

System settings

1. Long press the AUTO key to enter the system settings menu, where you can set the language, backlight brightness, auto power-off time, buzzer, calibration settings, and restore factory settings.
2. Use the up and down keys to select the item to be set, then use the left and right keys to adjust the setting.
3. Once settings are complete, long press the AUTO key or short press the LCRZ key to exit the settings menu.

Calibrate Settings

Bridge Calibration

Enter the settings menu and select “Bridge Calibration.” You can input the following 12 resistance values: 0Ω, 10mΩ, 100mΩ, 1Ω, 10Ω, 100Ω, 1KΩ, 10KΩ, 100KΩ, 1MΩ, 10MΩ, OPEN. Calibration can also be done for individual resistance values.

1. Use the left and right keys to select the resistance value to calibrate, connect the corresponding standard resistor, and press the AUTO key to start the calibration. At this point, the screen's section will turn yellow.
2. The calibration process will take 45 seconds, so please be patient.
3. Calibration results: Green indicates OK, Red indicates NG. Press the LCRZ key to exit.

Notes

1. Use non-inductive resistors for calibration. Do not use wound resistors.
2. For 10mΩ and 100mΩ standard resistors, it is recommended to use 4-wire resistors.

3. For OPEN calibration, do not connect any resistors.

Internal Resistance Calibration

Enter the settings menu and select “Internal Resistance Calibration.” You can input the following 15 resistance and voltage values: 0Ω, 1mΩ, 10mΩ, 100mΩ, 1Ω, 10Ω, 100Ω, 1KΩ, -60V, -10V, -1V, 1V, 10V, 60V. Calibration can also be done for individual values.

1. Use the left and right keys to select the resistance or voltage value to calibrate, connect the corresponding standard source, and press the AUTO key to begin calibration. The screen's section will turn yellow.
2. The calibration process will take a few seconds,so please be patient.
3. Calibration results: Green indicates OK, Red indicates NG.

Notes:

1. Use non-inductive resistors for calibration. Do not use wound resistors.
2. For 10mΩ and 100mΩ standard resistors, it is recommended to use PBV 4-wire resistors.
3. Voltage calibration requires a standard DC voltage source.

Additional Notes:

1. Although this product provides an open user calibration learning mode, it has been 100% calibrated before leaving the factory, and no additional calibration is necessary for users. If calibration is required in special situations, the above method can be followed.
2. If calibration values are inaccurate or distorted, simply restore the factory settings to return to the factory calibration values.