





Quick Start Instructions Operating Instructions

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590-2093-501A /SL-29408/4200-049 R3

Powering On the Cellcorder

1. Press and release the green **Power Key**.



2. The firmware version number appears.



- 3. If readings are in temporary storage, messages appear.
- To save readings, insert the USB flash drive and press Yes/F1. Whether you select Yes or No/F2, readings stay in memory.



5. To clear readings from the memory, press **Yes/F1**. Do this if you are starting a new set of readings.



- 6. To keep readings in memory, press **No/F2**. Do this if you are not finished taking readings or want to examine the readings.
- 7. The Main Menu appears.



Note: It is highly recommended that the calibration constants are saved to the USB flash drive.



1. Connect the voltage probes to the Cellcorder and select **Test Mode/F1**.



2. From the Test Mode menu, select **F1-Voltage**.



3. If "**Resume Test**" appears, put the probes on the cell.



Warning

Don't measure voltages greater than 20V DC.

4. If "Stored in Memory" appears, retest the cell or change the cell number by typing a number and pressing Enter.



5. When the unit beeps, remove the probes. The cell number advances automatically to the next cell.



Connecting the Resistance Leads

These figures show connections for dual post cells.

Take two readings.

Read with the intercell leads connected from terminal posts A to C.

Then read with the intercell leads connected from terminal posts B to D.



Take two readings.

Read with the intercell leads connected from terminal posts A to C.

Then read with the intercell leads connected from terminal posts B to D.



These figures show connections for triple post cells.

Take three readings.

Read with the intercell leads connected from terminal posts A to D.



Then read with the intercell leads connnected from terminal posts B to E.



Then read with the intercell leads connnected from terminal posts C to F.



Transferring Specific Gravity and Temperature Readings

- On the CRT-400, select a cell data file to transfer Specific Gravity and Temperature readings into. This can be readings that already exist in memory or you can open a previously saved set of readings from the USB flash drive.
- 2. From the Main Menu, select Test Mode/F1.



3. From the **Test Mode** menu, select **F3-S.G./Temp**.

F	Test	t Mod	de ek	_		
	F1-Voltage					
	F2-Resistance					
	F3-	S.G.	.⁄Temp.			
vo	LT	RES	SG/TEMP	BACK		

4. From the **SG/Temp** screen, select **Import** by pressing **F2**.

CELL -	001
s.G. #.###	Temp. ##.#
IMPORT	CANCEL

5. On the **Data Module**, select a channel (**A-H**) of data to transfer.



- 6. Align the Data Module and CRT-400 IR port.
- 7. On the CRT-400 press **F2** for **Continue**.



8. When transfer is done, the **S.G./Temp**. value from Cell 1 appears.



9. Select **Import/F2** to save the file to the USB flash drive.

Saving New Data Readings to the USB Flash Drive

- 1. Make sure the Cellcorder has been charged properly.
- 2. The USB flash drive may be placed into the left side USB port on the Cellcorder before or after the Cellcorder is powered on.
- 3. Follow the prompts on the Cellcorder's LCD accordingly.
- 4. When prompted to save readings to USB flash drive, select **Yes/F1**.
- 5. Follow the prompts and enter the file name and select **Save/F2**.
- If the file already exists, a Warning displays, asking for overwrite confirmation. Press F1 to overwrite the file or F2 to enter a new file name.
- 7. The USB flash drive has now stored the new data.

Note: Do not remove the USB flash drive while accessing data, writing to a file, reading information, etc.

Warning

Never leave the USB flash drive plugged into the Cellcorder when performing tests or while the Cellcorder is connected to a battery for testing.

Readings cleared from Cellcorder temporary storage cannot be retrieved unless they have been saved to the USB flash drive or PC.



Recommended Steps to Save CAL-K

The **CAL-K** are calibration constants that are utilized for calibration correction during calibration. In the event these constants are lost, they can be restored easily.

It is highly recommended that the calibration constants are saved to the USB flash drive.

To save the constants:

- 1. Make sure the CRT is powered on.
- 2. Select **Shift**, then the number **7** from the keypad.
- 3. Enter the password '**1234**' and press Enter.
- Select Calibration by pressing the number 1 on the keypad.
- 5. Choose **CAL-K** by selecting **F2**.
- 6. Select **F2** once again to confirm the **Backup**.
- 7. Enter a File Name and select **F2** to so **Save**.

e. When *Bluetooth* devices are found, a list is populated.



Use the arrow keys to select the desired *Bluetooth* device and press **F1**.

- 7. Once the *Bluetooth* headset and the CRT are connected, press **F1-Test Mode**.
- 8. Choose the desired test by pressing either **F1**, **F2**, or **F3**.

-Test Mode						
F1-Voltage						
F2-Resistance						
F3-S.G./Temp.						
VOLT RES SG/TEMP BACK						

9. Place the *Bluetooth* headset on your ear for test status information.

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