

# Read Thermochrons using CLIE itcRead Program



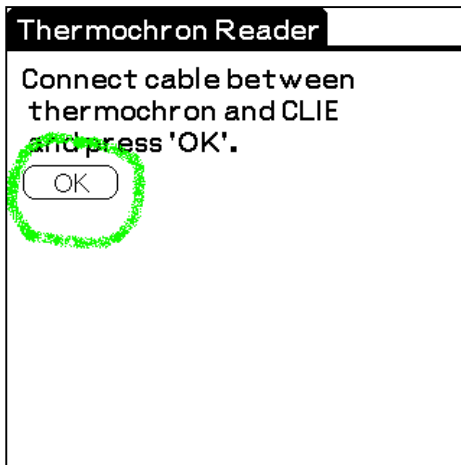
1) Clip the 'blue-dot' cable onto the bottom of the CLIE



and attach to a thermochron button (dry and clean if necessary).

2) Turn the CLIE on (button is on top right). Start the itcRead program by using your finger to press the 'list' button (4th button along the bottom, circled in green) OR you can tap the itcRead program with your stylus. If the screen does not show

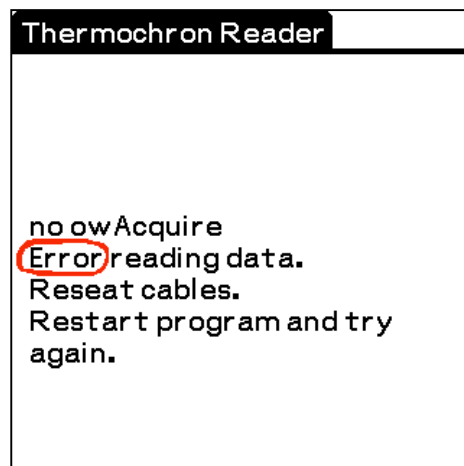
multiple program icons, tap the 'home' symbol (circled in green, left edge). You may need to scroll the screen to show and tap the itcRead program.



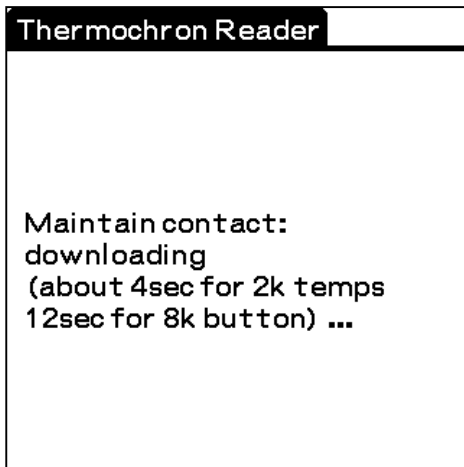
3) On startup, the itcRead program simply shows the 'OK' button. Tap 'OK' to continue.

If data cannot be read for any reason, an **error message** will be displayed (the red circle was added to the example on the right for emphasis).

As suggested, check all the connections between the thermochron and the CLIE. Then restart the itcRead program.



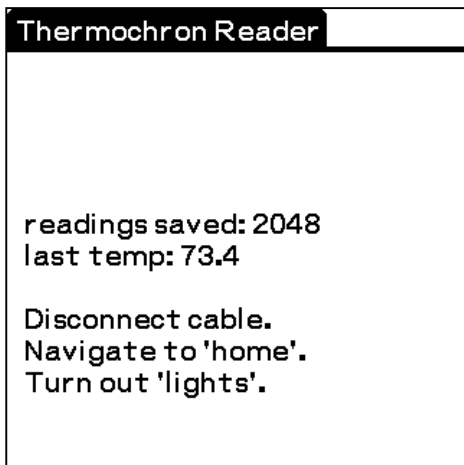
4) The following 3 screens show the progression of a 'normal' save.



While the screen on the left is displayed, **contact** between the CLIE and the thermochron **MUST be maintained** - the CLIE is actually getting data from the thermochron.



Once the screen on the right comes up the CLIE is done with the thermochron and is simply saving data to a file on the memory stick. The dates and temperature values will change as the writing progresses. Since the CLIE is done reading data it is **OK to disconnect the cable from the CLIE and from the thermochron.**



The screen on the left indicates that the itcRead program is completely finished – **you are DONE reading a thermochron.**

5) As the last message suggests, if you have not already done so, disconnect the cable since it uses scarce power even

when not being used! Then finish by tapping the 'Home' icon and turning off the CLIE. Keep the CLIE warm until the next reading. Don't forget to recharge its batteries when you take the CLIE back inside.



If you have questions or problems please contact me, Jim Zandlo, State Climatology Office, by phone at 651-296-4214 or email at [jzandlo@umn.edu](mailto:jzandlo@umn.edu)

## Moving ThermoChron data files to a PC



The Digital Concepts USB Memory Stick Card Reader/Writer USB Reader/Write should be connected to a USB port on your computer. For Windows XP or 2000 just plugging the device in should make it ready for use. (For first time use on Windows 98 you may need to install drivers from the CD that comes with the reader.)

Establish a directory on the PC where you will archive the files downloaded from the Memory Sticks, for instance D:\itcRead\dataIncoming would work fine.

Add a new subdirectory for each date on which a download is done, for instance the directory D:\itcRead\dataIncoming\041221 for data you download on Dec 21, 2004 would make it easy to later copy or send just those files.



Remove the memory stick by briefly pressing in on the end of the (purple) stick and quickly releasing. The stick will pop part way out as shown here.

When you plug the stick into the reader you may get a messages about the establishment of a diskette connection. The memory stick should look like a removable disk in Windows Explorer on the PC. If the drive letter assigned is 'G:' then the files you want to copy off will be in G:\PALM\SCO. The file names will look something like tc61D9\_200412030734.txt where the button number as well as the date and time of reading are all incorporated into the file name. Copy all the files to your computer archive (in a directory you have established as noted above). (If you will be sending the files to the SCO, once the files are safely archived on your computer you can delete them from the Memory Stick.)

To remove the memory stick from the Digital Concepts reader, click on the 'unplug' icon (a leftward-pointing green arrow above a memory stick image) that the reader has put on the 'tray' in the lower right-hand side of your computer screen. When the message appears to remove the stick, go ahead and simply pull it out and put it fully back into the CLIE memory slot (it should click into place and beep).

**Email the downloaded files [jzandlo@umn.edu](mailto:jzandlo@umn.edu) OR copy the files to a diskette and mail to the State Climatology Office as soon as possible after reading thermoChron.**