

Using the Syscal Kid Switch 24

FIELD SET UP

- place the electrodes (firm contact)
- connect them to the cables (no crossing cables)
- connect the SYSCAL Switch to the cables (make sure the connectors are clean)



TURN ON THE [SYSCAL SWITCH](#)

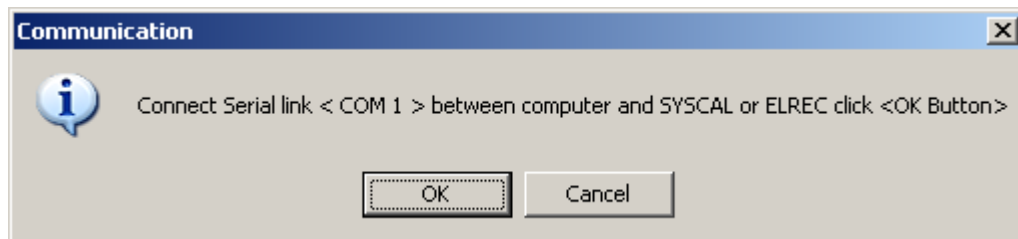
- check the battery
- **Set-up**
 - Standard
 - Stack max = 5 (arbitrary)
 - Stack min = 3
 - $q \text{ max} = 3$ (standard deviation V/I in % is the limit for #stacks < stack max)
- **EL. Array = WENNER PRF SWITCH**
 - CC/3 = the spacing between electrodes
 - # Lvl = 7 (maximum pseudosection levels for WENNER with 24 electrodes)
 - Node = number of electrodes (usually all 24)
 - Line = 1 (or 2, 3, ... you can keep doing lines in same file name)
- **EL. Array = Dip-Dip Switch (dipole-dipole)**
 - D(m) = electrode spacing
 - # Lvl = 9 (maximum pseudosection levels for dipole-dipole with 24 electrodes)
 - Node = number of electrodes (usually all 24)
 - Line = 1 (or 2, 3, ... you can keep doing lines in same file name)
- **MEMORY**
 - NEW – enter filename (use arrow keys; numbers or letters). **WARNING:** If you select **START** without a new file name your results get stored in the last filename (which Syscal calls a 'directory'). Use a new name for each survey line.
- **START** – make sure you entered a new filename
 - New Acquisition (shows your setup, and waits for ENTER to start)
 - Checks electrode connections (1 <--> 2, etc); make sure they are all OK
 - Now it should start displaying measurements
V, I, R are average V, I, resistivity; lower case = instantaneous
q = standard deviation of V/I in percent
#1, #1, ... (lower right) is running number of stacks

When the switch finishes, you can change the array type and run it again or move on to another line.

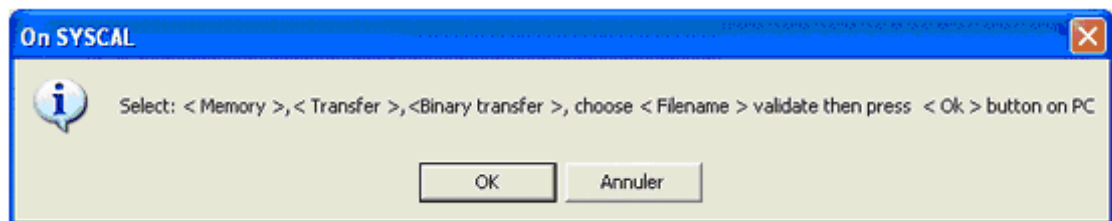
PROSYS II is the download and data management software for the Syscal Switch. Usually, following the screen directions works fine. Note that you must know what your filename (not line number) is. If you did not create a new filename, your data are stored at the bottom of whatever file was last used. The software is available on the web:
<http://www.iris-instruments.com/Support/support.html>

- **Start PROSYS II**

- Check: **Communication/communication port/ COM1**
- Select: **Communication/Data download/Syscal Kid Switch**. PROSYS II returns a message box which says to connect the serial cable to the Syscal Switch and COM1 on the PC.



- Turn on the Syscal Switch: **The switch must be turned on before connecting the cable.**
- Connect the serial cable from COM1 on the PC to the Syscal Kid Switch.
- The Syscal Switch should show a message box – Follow that procedure and then select “:OK” (Enter Filename)



- The screen should say “transfer in progress”
- Save the binary data
- You can now use the program, edit the data, save for RES2DINV, and view a quick pseudosection.