

QUICK START GUIDE TO WINLOGGER

What kind of winch do you have?

You will need to know:

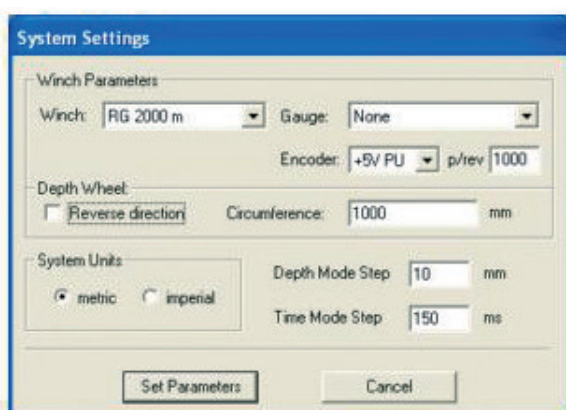
Cable type – 4 Core, Monocable (coaxial 3 conductor) or Monocable (2 conductor)

Cable length – cables greater than 2km, and certain probes, are usually used in Differential mode

Encoder type – number of pulses per rev (usually 1,000), power requirements (5 volts DC Pull Up for Robertson Geo winches)

Depth wheel circumference – usually 400mm, 500mm or 1,000mm - exact value may be supplied with system documents

For main winch settings in WinLogger select Tools/Change System Settings:



Set basic **Winch** type if known – this will pre-set some of the other values.

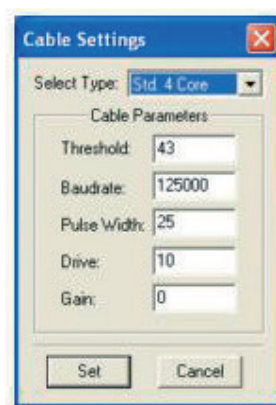
Set **Encoder** power and pulses.

Backwards wheel? Set **Reverse Direction**.

Logging **Metric** or **Imperial**? Do not alter steps unless expert.

Press **Set Parameters** when done.

For other winch-related settings in WinLogger select Tools/Cable Settings:



Select **Type** 4 Core, Monocable or Differential usually.

Threshold to be set when testing probe.

Baudrate usually 125,000.

Pulse Width usually 25.

Drive usually 10.

Gain usually 0 for 500 metres or less, increase for longer cable.

Press **Set** when finished.

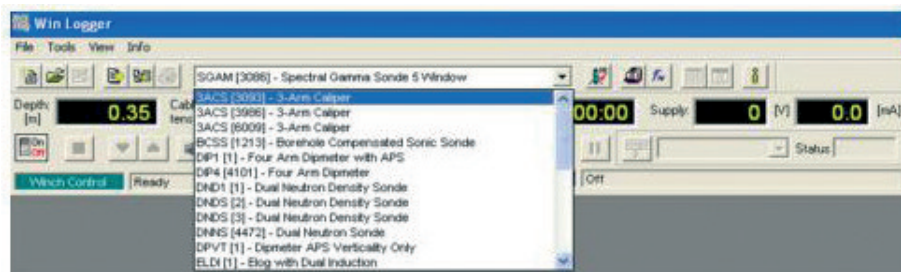


What kind of probe do you want to use?

Note that the probe will be manufactured to be compatible with one particular wireline cable. It is important that you know which sort this is to get working quickly. If the system includes a video camera probe it is most likely that the winch cable will be Monocable Coaxial, so other probes will be configured for Monocable.

You may need to go back and change the Cable Settings Type to suit the probe.

See if you can find the probe you want in the drop down menu list:



If you were supplied with calibration files, the four letter abbreviation, e.g. 3ACS, ELXG etc, should help identify it. If the list does not include your probe, then it will need to be imported and you should have been supplied with a probe import file (.txt).

Select Tools/Sonde Database/Import and direct the software to the location of the import file to do this. Once the probe shows in the drop down list, select it to lodge it into the box.

How do you connect everything up?

MICROLOGGER

- WINCH connection, 19 pin data lead from here to winch grey box
- POWER connection 2 pin lead to 12 Volt DC power source (5 Amperes capability)
- USB connection by flying lead to computer (ensure software driver is installed – not Windows™ Plug&Play – special program on disk only)
- VIDEO OUT & CAMERA connections – only for borehole camera (See VidLog manual)

WINCH

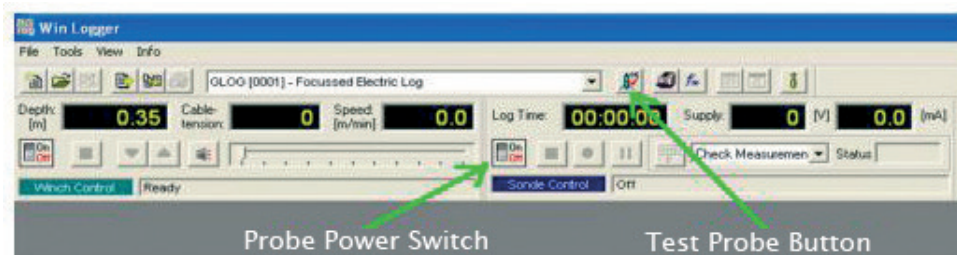
- Probe needs to be connected to cable-head on end of wireline (grease rubber seal regularly)
- Data connection, 19 pin data lead to Micrologger
- Power connection by flying lead to 12 Volts DC or 110/240 Volts AC depending on winch
- Depth lead connection 6 pin 15 metre lead to Encoder on tripod (not on some winches)
- Earth stake (Fish) connection, green socket on top of grey box for electrical log tools (ELOG etc)
- External Tension measurement device 7 pin connection (not on all winches)
- REMOTE connection, smaller 6 pin connector for remote control pendant (not all winches)
- RF coaxial connector for borehole camera systems (see VidLog manual)



How to test that probe is working

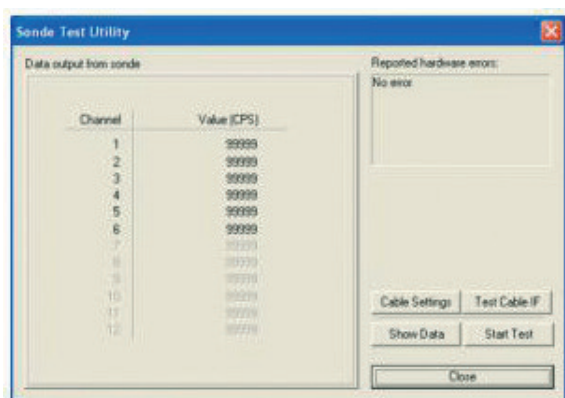
With equipment all connected and powered, run WinLogger software.

Select correct probe. Press power switch in software.



The Supply boxes in the software should indicate numbers in (V) and (mA). These are usually 90 and 100 or less. If (mA) remains at zero check that the cable setting is correct for the probe.

Next, press the Test Sonde button in the software.



Press **Test Cable IF** button. A display will appear and should show an 'oscilloscope' type trace similar to the one shown below. If the display shows a horizontal line only, try reducing the **Cable Setting** value of Threshold to 10. Also try increasing the value of Drive from 10 to 15 etc, and Gain from 0 to 1 etc.

Once a similar trace is established use the computer mouse cursor to point to 2/3 of the lines excursion from the centre, as shown in the image to the left.



A number will appear at the top of the window. Set the Cable Settings Threshold value to this window.

Press **Start Test** button and two 'No error' messages should appear in the Reported Hardware Errors box. Now press **Show Data** button and the raw data channels from the probe should be displayed in a continuous update.

All is now working and the probe power switch may be turned off to allow disconnect of the probe.

Scan the QR code to
go directly to
www.robertson-geo.com

