Micro-controller replacement in the SRI Model 333 Data System

With the advent of the Windows7-64bit operating system in December 2009 it was found that the firmware in the Cypress micro-controller in the SRI Model 333 A/D board needed to be updated in order to function with the 64bit version of Windows&7 (also 64bit Vista).

The 32 bit version of Windows7 was not affected and works fine without upgrading the micro-controller.

The upgraded micro-controller is SRI part# 8600-1052 (US$ 100).

Locate the micro-controller on the circuit board. The chip has the USB device ID number written on it.

The replacement chip will have a different number printed on it.
Micro-controller replacement in the SRI Model 333 Data System

Use a small blade screwdriver to lift (wiggle) the chip out of its socket. Insert the screwdriver tip between the chip and the socket and gently lift. Try not to bend the pins.

Notice that the chip has a little half circle on one end.

This end should be oriented to the left when the new chip is installed.

Wiggle/press the new chip into the socket being careful not to bend any of the pins.

Finally make a label with the new chip’s device id# and attach it to the back of the chassis.

You will have to enter this number in the PeakSimple software’s Edit/Overall screen.
Micro-controller replacement in the SRI Model 333 Data System

If your Model 333 data system is installed in an SRI GC then you will need to gain access to the A/D board to replace the micro-controller chip.

**Unplug the GC’s power cord.**

Remove the six screws holding the bottom cover on the GC. Then tilt the GC up on its back so you can see inside.

Use a 5/64th hex wrench to remove the four screws holding the A/D board in the GC.

Slide the A/D board out halfway so you can access the micro-controller chip. Replace the chip as described.