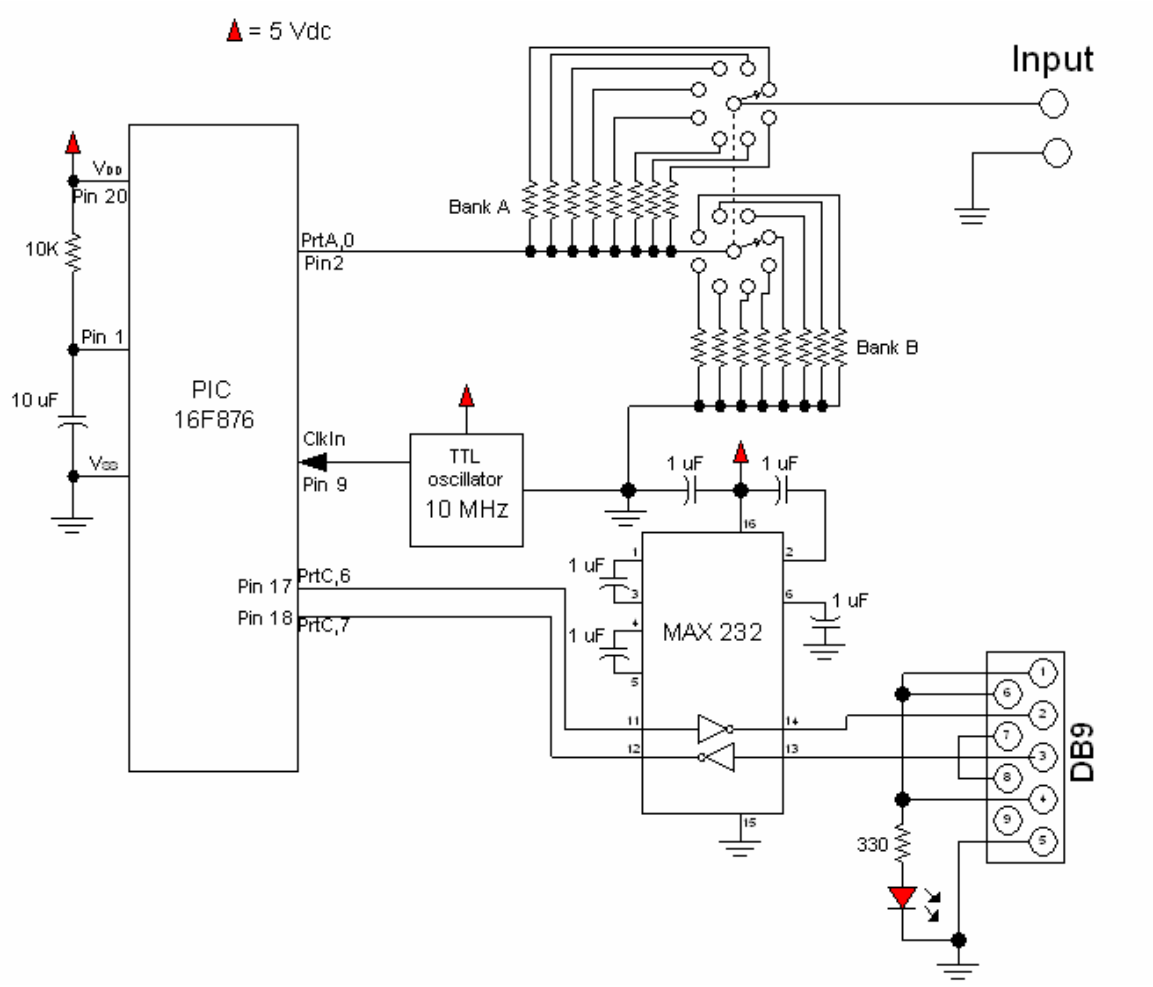
Configure each position of "BankA" resistors to match each position of “BankB” resistors (on the Rotary Switch) to develop a divider scale of input amplitude settings (Volts per Division). Do not exceed 10K on Bank A.

The PIC 16F876 has a 14 bit ADC, however since the Datalogger records 8 bit values, be sure not to use the upper bits. You can use Ohms law to dial in resolution along with your assembly code for the PIC. Set the ADC to reference the 5 Volt rail (Set register 0x9F to 0x80).

Note… You’ll need to write the assembly code for this project. It is not that hard to do. Go to the Microchip.com site and download their IDE (MPLAB) and the spec PDF for the 16F876 controller. That will provide you with everything you need to code the PIC.



Happy Coding!
0x34