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'Written by Downwind for TheBackShed Power Logger 20/6/2010

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Symbol temp       =      w0   'label variable word1 TEMP
symbol amp        =      w1   'label variable word0 AMP
symbol volt       =      w2   'label variable word2 VOLT
symbol rpm        =      w3   'label variable word4 RPM
symbol Check      =      w4   'lable variable word5 CHECK

symbol Y          =      b13  'label variable  b13  Y

symbol Wind       =      w5   'lable variable word5 Windspeed

setfreq m4                    'set the clock frequency to 4 meg/Hz

#picaxe 08m                   'set the type of picaxe for prog editor


'Low 4                              'set spare pin to low


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START:                        'label the start of the program START



      pulsin 3,0,rpm
      count 3,500, rpm        'count RPM pulse for 500 milliseconds

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      temp = 0

      for Y = 0 to 19         'read amps 10 times


      readadc10 1, temp       'read Amps input 1
      if temp = 0 then
      let amp = 0
      endif
      let amp = amp + temp   'add temp reading to previous amps reading

      next Y                  'repeat process 20 times
      temp = 0                'reset temp to zero



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      temp = 0

      for Y = 0 to 1          'read volts 2 times

      readadc10 2, temp       'read Volts 2

      let volt = volt + temp  'add temp reading to provious volt reading

      next Y                  'repeat process 2 times

      temp = 0                'reset temp to zero


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      Let check = volt + amp + rpm + wind       'compile checksum


      'send the data out the serial port to computer

      sertxd("[<V>" ,#volt, "</V> <I>", #Amp ,"</I> <R>" ,#RPM, "</R> <S>",#Wind, "</S> <C>",#Check,"</C>]",13,10)


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      Let amp = amp / 2
      let volt = volt / 2


      goto start              'Start over, loop back to Start




      End                     'there is never a end


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