C:\Users\GOTTA\Desktop\LOGGER\TBS Assembly Photos\Source code.bas

1 2 3 4 'Written by Downwind for TheBackShed Power Logger 20/6/2010 5 6 7 8 Symbol temp w0 'label variable word1 TEMP symbol amp 'label variable word0 AMP 9 = w1 symbol volt symbol rpm 'label variable word2 VOLT
'label variable word4 RPM 10 = w2 11 = wЗ symbol Check w4 'lable variable word5 CHECK 12 = 13 symbol Y 'label variable b13 Y 14 = b13 15 16 symbol Wind w5 'lable variable word5 Windspeed = 17 setfreq m4 'set the clock frequency to 4 meg/Hz 18 19 20 #picaxe 08m 'set the type of picaxe for prog editor 21 22 23 'Low 4 'set spare pin to low 24 25 26 27 28 29 START: 'label the start of the program START 30 31 32 33 pulsin 3,0,rpm 34 count 3,500, rpm 'count RPM pulse for 500 milliseconds 35 36 37 38 temp = 039 40 for Y = 0 to 19 'read amps 10 times 41 42 readadc10 1, temp 43 'read Amps input 1 44 if temp = 0 then 45 let amp = 0endif 46 'add temp reading to previous amps reading 47 let amp = amp + temp48 49 next Y 'repeat process 20 times temp = 0'reset temp to zero 50 51 52 53 54 55 56 57 temp = 058 'read volts 2 times 59 for Y = 0 to 1 60 readadc10 2, temp 'read Volts 2 61 62 let volt = volt + temp 'add temp reading to provious volt reading 63 64 next Y 'repeat process 2 times 65 66 67 temp = 0'reset temp to zero 68 69 70

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71
                                           'compile checksum
72
        Let check = volt + amp + rpm + wind
73
74
75
         'send the data out the serial port to computer
76
    sertxd("[<V>",#volt, "</V> <I>", #Amp ,"</I> <R>",#RPM, "</R>
<S>",#Wind, " <C>",#Check,"</C>]",13,10)
77
78
79
80
    81
         Let amp = amp / 2
let volt = volt / 2
82
83
84
85
86
         goto start
                             'Start over, loop back to Start
87
88
89
90
91
         End
                             'there is never a end
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