

```

motor_dir    var    PORTB.4    'low: CW high: CCW setting
.            'motor direction to PORTB.4
motor_step   var    PORTB.5    'setting motor step to PORTB.5

up_button    var    PORTB.1    'set up button to PORTB.1

down_button  var    PORTB.2    'set down button to PORTB.2

position     var    bit        'define position for anemometer

i            var    word        'set i to a word

'set internal oscillator

define osc 16
oscccon.4 = 1
oscccon.5 = 1
oscccon.6 = 1

'define inputs and outputs

TRISB = %00000110    'B1 and B2 as inputs

'Main Loop to Run the Motor

position = 0    'setting "down" position for
                'anemometer

start:

    if(up_button == 0)&&(down_button == 0)then    'neither up or down button
                                                    'is pressed
        goto start

    elseif(up_button == 1)&&(position = 0)then    'up button pressed
        goto raiseanemometer

    elseif(down_button == 1)&&(position = 1)then    'down button pressed
        goto loweranemometer

    else
        goto start

    endif

raiseanemometer:

    high motor_dir    'set motor to CCW

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```
i = 0
for i = 1 to 57600                                     '# of steps for motor
pulsout motor_step, 100                               'send pulses to driver board
next i
position = 1                                          'position "up" anemometer
goto start
loweranemometer:
low motor_dir                                         'set motor to CW
i = 0
for i = 1 to 57600                                   '# of steps for motor
pulsout motor_step, 100                             'send pulses to driver board
next i
position = 0                                          'position "down" for anemometer
goto start
end
```