

Plant Health Monitor V1.0

hardware schematics

LEDs go into PWM ~11, 10, 9, 6 and return directly to GND

Light sensor
comes on when the plant is asleep
or insufficient light for growth

Healthy light
everything is ok, plant is healthy

Water sensor
comes on when soil is dry or too wet

Temperature sensor
comes on when the environment temperature is
above/below plant's requirements

All LEDs have a 220Ohm resistor
infront of them

Thermistor
placed at the base of
stem detecting
temperature changes

Photocell
placed inside the
leaves detecting
light activity

Soil Moisture probes
inserted into the soil
about 0.5" apart,
galvanized nut & bolt

All analog sensors have a 10Kohm resistor after them
they go straight into 5V to resistor to Analog A0, A1, A2 to GND

