Circuit components, photos and circuit diagram equivalents

tmessina, 8/23/2011
Resistor = 1000 Ω

Diode

Base

Collector

Emitter

USB to computer
Photosensing circuit shown with Arduino duemilanove

tmessina, 8/23/2011
Resistor = 1000 Ω

Diode

Base

Collector

Emitter

USB to computer
Photosensing circuit shown with Arduino Uno

tmessina, 8/23/2011
Diode

Base

Emitter

Collector

Resistor = 1000 Ω

5 Volts

Pin 12

Ground
Heat lamp operating circuit shown with Arduino duemilanove

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Heat lamp operating circuit shown with Arduino Uno

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Heat lamp operating circuit

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USB to computer

Thermistor
$R(25^\circ C) = 10,000 \ \Omega$

Resistor
$R = 10,000 \ \Omega$
Thermistor circuit for monitoring a single temperature shown with Arduino duemilanove. To measure a second temperature set up the same circuit using A2 instead of A1, do not make a second connection to A0.

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Pin A0

Pin A1 (A2 for second thermistor)

5 Volts

Thermistor
R(25°C) = 10,000 Ω

Resistor
R = 10,000 Ω
Thermistor circuit for monitoring a single temperature. To measure a second temperature set up the same circuit using A2 instead of A1, do not make a second connection to A0.

tmessina, 8/23/2011
Photo of the photosensing and heat lamp operating circuit. An LED is in place of the relay.

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A photo of the entire apparatus and a mouse in a rodent immobilizer.

tmessina, 8/23/2011
What is the file name?
Analgesic-A.csv

What is the sample?
Mouse 1

elapsed time (s)
0

OK