

Minimal Button Circuit, and Conductive Sensor

This activity demonstrates the construction of a voltage divider which operates like a button circuit.

one half of the divider is a very high-value resistor, and the circuit is completed by a human body touching two contacts.

Build

- add a single 20 MegaOhm [pull up resistor](#), a ground wire and a sensor wire
- upload code which reports the sensed voltage by sending number characters over the Serial link
- use the Serial Monitor feature within the Arduino IDE to monitor the numbers sent
- observe the effect on the numbers when a human body connects the two wires
- it's possible to plot the voltage signal by using Processing or Python

Open the AnalogInOutSerial sketch