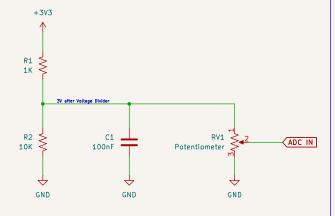
POTENTIOMETER +3V3 Potentiometer RV1 ADC IN Potentiometer \$ GND GND V_OUT

- Potentiometers or "Pots" allow for manual control over voltage level
 In essence, its a Voltage Divider that outputs scaled voltage within the range of volateg applied to pins 1 and 3.
 For example, pin 2 will output between 0v and 3V3 depending on pot position.

POTENTIOMETER - Adjusted Voltage Range and Decoupling Capacitor



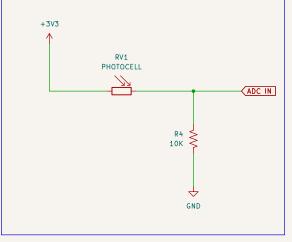
In this circuit, maximum voltage output of pot is reduced to 3V to avoid nonlinear range on ESP32 ADC.
 Optional Decoupling Capacitor added between output voltage of pot and Ground to reduce voltage ripple and "smooth" out signal

Light-Dependent Resistor (LDR) / PHOTOCELL

A PhotoCell is a light—dependent resistor:

— as light levels increase, resistance decreases...

...which results in a higher voltage level read on ADC.



File: ADC.kicad_sch

Title: ADC: Potentiometer & PhotoCell

Size: A4 Rev: KiCad E.D.A. 9.0.0 ld: 1/1