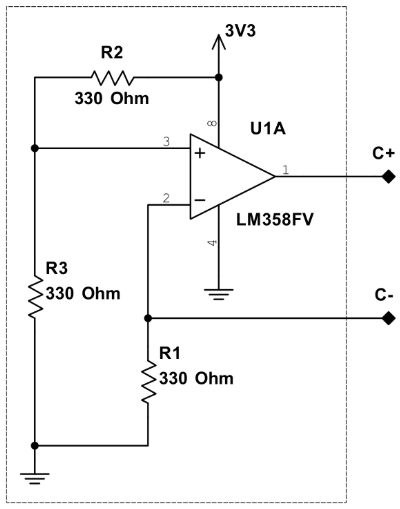
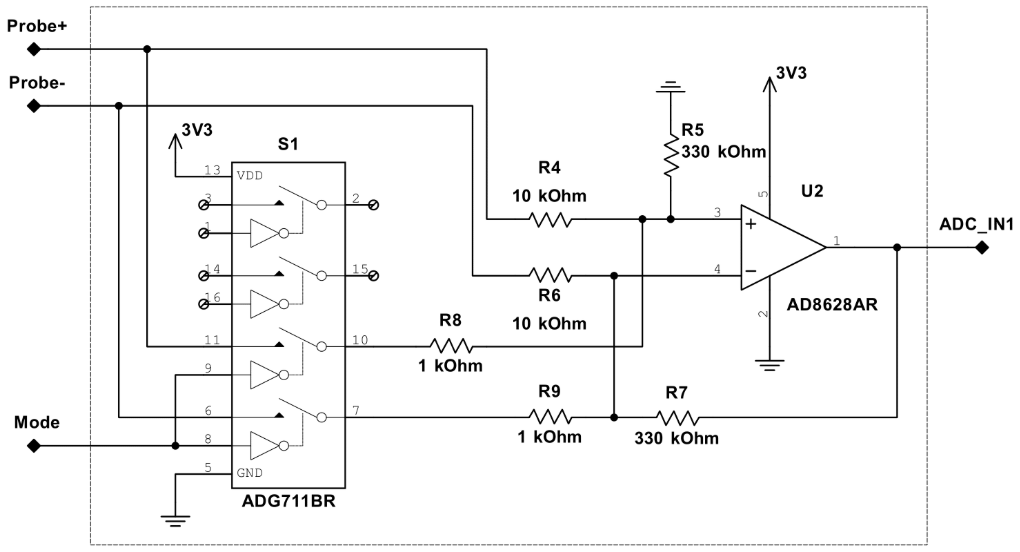
**Precision ohmmeter**

**Current source**

**Differential amplifier**



**Mode 1**

**Mode 2**

**Analog-to-digital converter**

When supplied at , and FSR (full-scale range) set to least significant bit corresponds to of the input voltage. Schematic denotes op-amp supplied at , consequently ADC range is not used.

Given current applied to the measured object, we can calculate the resistance corresponding to the LSB for each gain mode:

**Mode 1** (gain 33)

**Mode 2** (gain 363)

At this setting ADC has output noise (accordingly to the datasheet) of or .