

## M30 LOW CURRENT MEASUREMENT



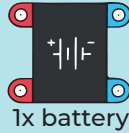
1x switch



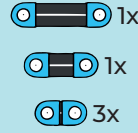
1x potentiometer



1x display



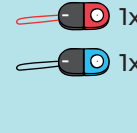
1x battery



1x

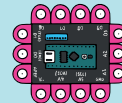
1x

3x



1x

1x



1x micro computer



1x resistor 100Ω



1x capacitor 100nF

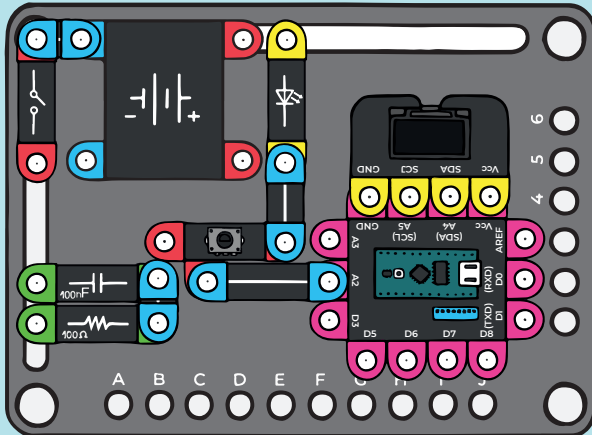


1x LED

The flow of electric current through the circuit through the resistor causes the component to heat up, which represents an output power loss on the appliance. In order to determine the output power loss, it is first necessary to know the current flowing through the circuit, which is digitally measured as a voltage drop across a very small resistance. Common resistor values are less than 1Ω but are supplemented by signal amplifiers. Here we will include a 100Ω resistor in the circuit at which we will read the current being measured.

Set the changeover switches on the microcomputer to the ON position. In this build, set Changeover Switches 1 and 6.

1.



2.

