

Technical Notes

Hydroelectric Generator

Associated Equipment

The following equipment from djb microtech can be used with the Hydroelectric Generator:

- Component Holder A1-1200.51 with low current red LED A3-1000.00
- Smiley Green Man LED Board L1-1030.00

Setting Up

If your tap produces a turbulent flow of water you may wish to connect a piece of rubber tubing to it.

Place the lid on your Hydroelectric Generator and position it under the tap.

Use long leads to connect an LED to the 4mm sockets on the generator.

Adjust the flow of water until the LED pulses. The generator produces AC and the LED only lets current flow in one direction.

You could try replacing the LED with a low current, low voltage filament lamp.



Maximum output voltage is 6V AC

Suggestion

To enable your students to work with the Generator at the sink you could take a piece of wood that spans your sink and cut a hole in it. The hole should be of a size that would allow the Generator to stand unsupported and the water to drain away down the sink.

Further Work

If your students have studied transformers you could demonstrate the transmission of power across the classroom.