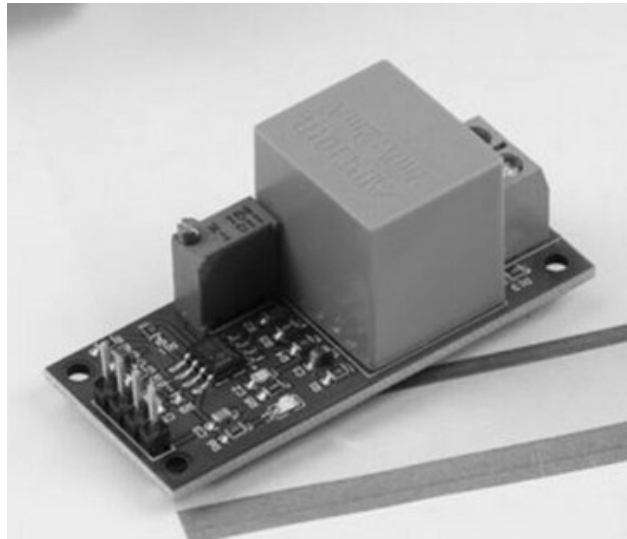


## ZMPT101B

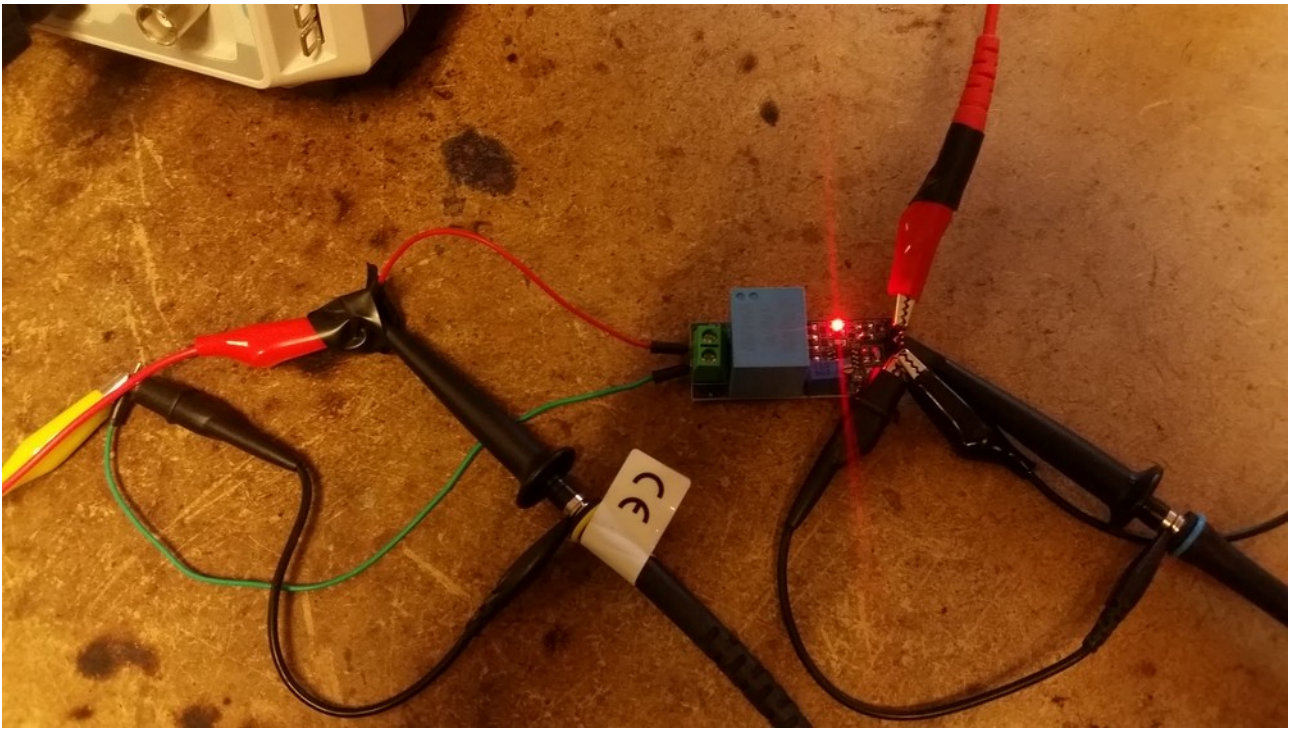


Datasheet of transformer [here](#).  
The item was bought from ebay [here](#).

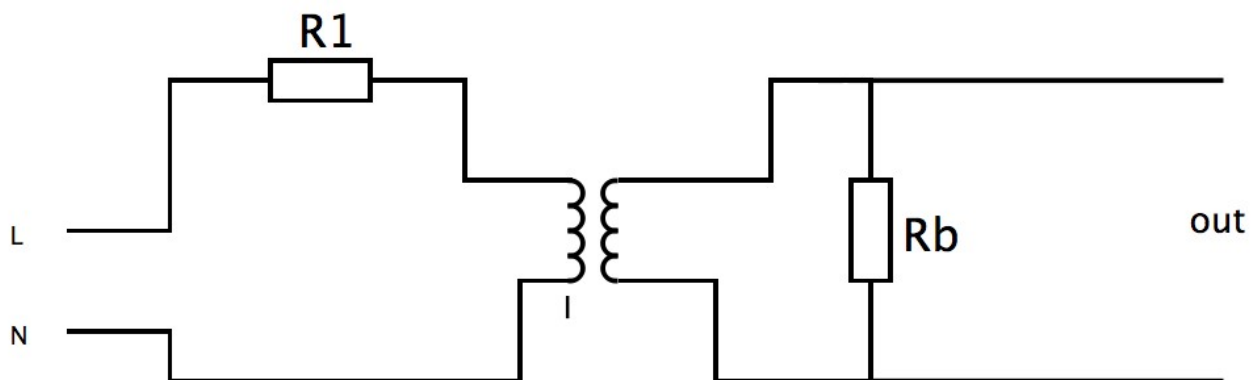
There are resources on-line for calibration of phase and amplitude.

Input / Output scope trace shows significant phase shift, some noise, and rounding of the waveform. Phase angle seems approx.  $360 \times (1.9 / 20) = 34.2^\circ$  (output lagging).





Measured values using multimeter:



Input = 250VAC

Voltage drop across winding on HV side = 0.1V

Current through each side of the transformer = 1.5mA.

HV side winding DC resistance = 113.12 R

LV side winding = 53.24 R

This is low because of the parallel burden, actual will be closer to 110 R.

R1 = 810k

Rb is estimated at 100R.

The modules cost about £3 on ebay individually. This is a cheap device with clear limitations.