



power_meter_1p.gme

Attributes

```
mainnodes_anlg: p m
main_var: v1 i1 pwr pwr_avg
aux_var: y1 y2
rparms: f0=5
```

Description

`power_meter_1p.gme` is meant for measuring the instantaneous and average powers for an electrical element. The current through the element `i1` is to be supplied externally to the element as a general variable, for example, by using `ammeter_fb.ece`. The instantaneous and average powers are computed as shown in the figure. A 5th order Butterworth filter is used, the parameter `f0` specifying the cut-off frequency of the filter.

Apart from the powers, the voltage `v1` (see figure) between `p` and `n` is also made available as a general variable.

AC behaviour is not implemented.