

## Transient Power Measurement of a Facsimile Machine

### [Application]

#### 1. Transient power measurement

You can capture voltage and current waveforms of the input power supply and monitor changes with each action of the facsimile, calculate consumed current, power, and efficiency in the specific averaged period.

#### 2. Synchronized measurement with multiple inputs

For instance, you can measure stand-by and various operating output power levels for internal components, synchronized with the commercial input power.

#### 3. Calculation based on waveform data

You can make a calculation of inrush current " $I^2T$ " during specific period.

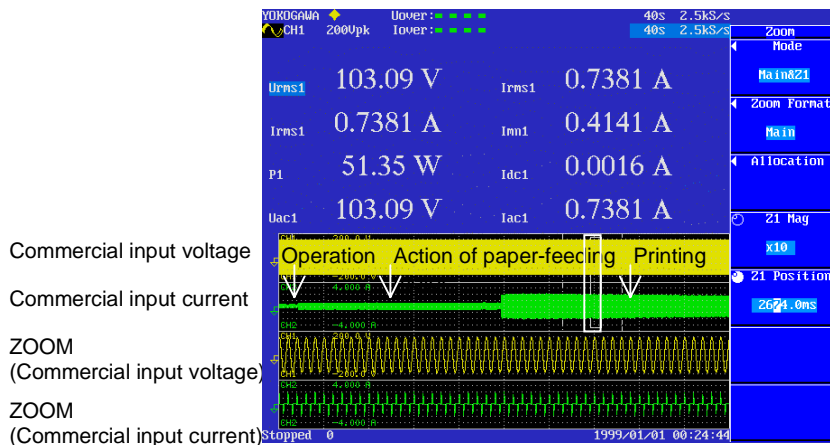


Fig.1. Example of commercial input measurement in a facsimile

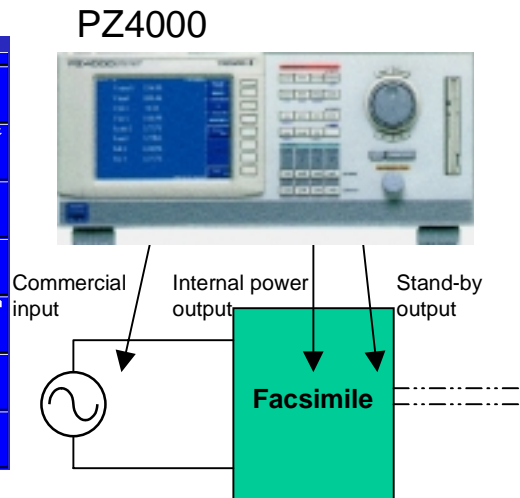


Fig2. Measuring part

### [Solution Features]

#### #Performance required from the power meter

- Calculation of power values of input voltage and current waveform in a specific period
- Specifying periods for averaging calculation based on captured waveform data
- Acquiring one pattern of waveform with large amount of memory - 4MW/ch
- Harmonic analysis of commercial input current

#### #Benefits for the user

- The PZ4000 performs the functions of three instruments. Waveform observation, value display and harmonic measurements are performed in one instrument, saving the user test and evaluation time, cost and space for many instruments. The measuring results are highly reliable because the numeric calculations are based on the waveform data.
- You can input signals without using isolated amplifiers or current sensors. This reduces the error of such accessories.