# Each Cycle Power Parameters Measurement

Parameter measurement for each cycle using the cycle-by-cycle measurement function

The cycle-by-cycle measurement function of the WT3000E is ideal for verifying changes for each rotation when a motor starts or verifying the supply voltage, current, power, frequency, and other parameters for each cycle. Up to 3000 data entries for each varying cycle can be displayed with the PC software or stored in the internal memory. Data can be converted to CSV format for viewing in spreadsheet software.

■ Example of cycle-by-cycle measurement results

100.1V 100.2V 100.1V 60.1V 65.2V 71.5V 100.4V 100.2V 100.5V
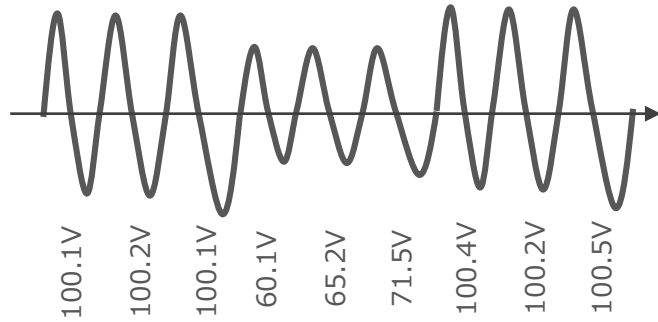
*Period : a minimum cycle of 1 ms (1kHz)

■ Example of data collection and trend display using PC software

The data for each cycle can be saved to the internal memory or PC software.

Precision Power Analyzer WT3000E

Specifications

Measurement items: Voltage (U), Current (I), Active Power (P), Apparent Power (S), Reactive Power (Q), Power Factor (λ), Synchronous Source Frequency (Freq), Torque (Torque), Rotational Speed (Speed), Mechanical Power (Pm)

Synchronous source signal: Selectable from U1, I1, U2, I2, U3, I3, U4, I4, and external source (The above measurement items are measured continuously in single cycle units of the cycle-by-cycle synchronous source signal.)

Measurement count: Max. 3000

Timeout period setting: 0 (approx. 24 hours), 1 to 3600 seconds (set in 1-second units)

Cycle range of cycle-by-cycle synchronous source signal: 0.1 Hz to 1000 Hz (The range from 0.1 Hz to 1 Hz is possible only for external synchronous sources.)

1/22/2019

Precision Making