

Power, Energy, Environment / Services, Maintenance

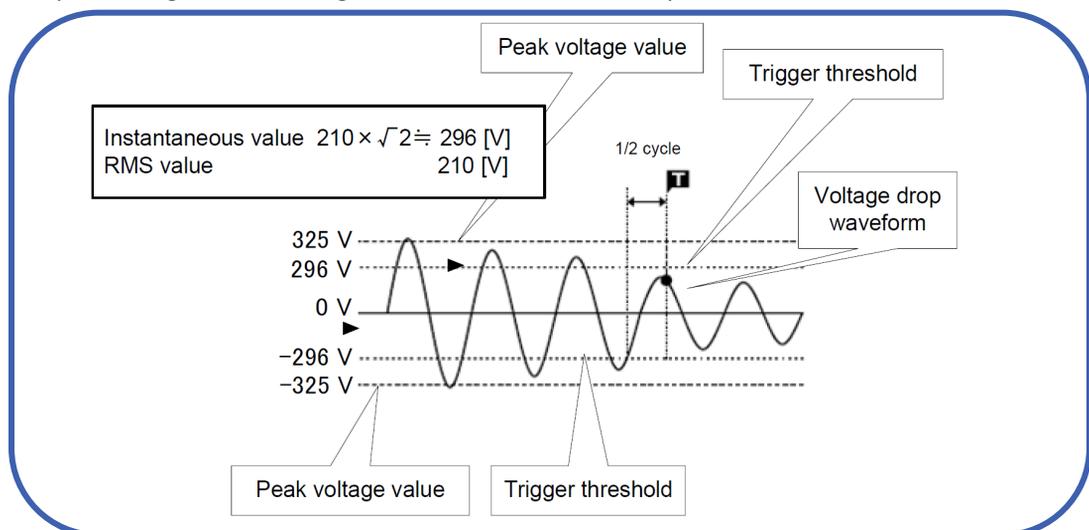
Measure the Instantaneous Power Failure and Voltage Drop of Utility Power Supplies (50/60 Hz)

Observe and record the instantaneous power failure and voltage drop waveforms of utility power supplies.

■ Highlights

- Use the MR8870 Memory Recorder to capture the instantaneous power failure and voltage drop waveforms that cannot be captured by a general level trigger.
- A level trigger displays and records the measurement data before and after a voltage level. That is larger or smaller than a voltage level that was set. A special trigger is used to capture the instantaneous power failure and voltage drop for which a level trigger cannot be used.

■ Example settings for detecting when a 230 V commercial power source falls below 210 V



1. Connect the MR8870 to the utility power supply.
2. Set 10 ms for the time axis range and 50 V/div for the voltage axis.
3. Recommended trigger settings are as follows.
 - 1. Trigger Mode : [Repeat] or [Single]
 - 2. Pre-Trigger : 50%
 - 3. Trigger Source : OR
 - 4. Trigger on CH1 : Select Voltage drop trigger [Drop]
 - 5. Frequency : Select the frequency of the object to be measured (50 HZ / 60 Hz)
 - 6. Voltage Level : Select 296 V (when measuring a 230 V utility power supply)
4. The trigger is activated when the voltage peak is less than the set level over a half cycle.



MEMORY HiCORDER MR8870

Products used

- MEMORY HiCORDER MR8870-20
- CONNECTION CORD L9197 (Up to 600V)
- CONNECTION CORD L9198 (Up to 300V)
- PC CARD 512MB 9728
- BATTERY PACK 9780