

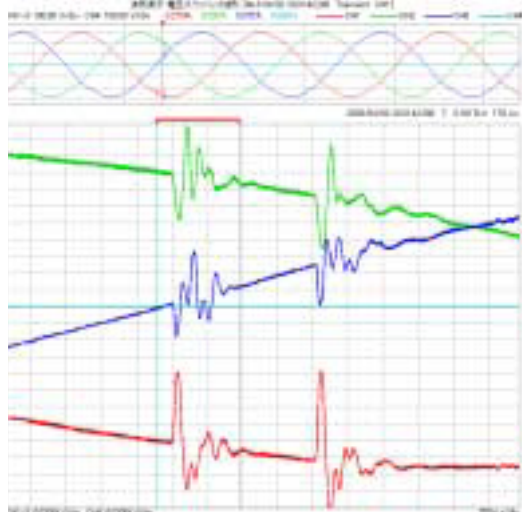
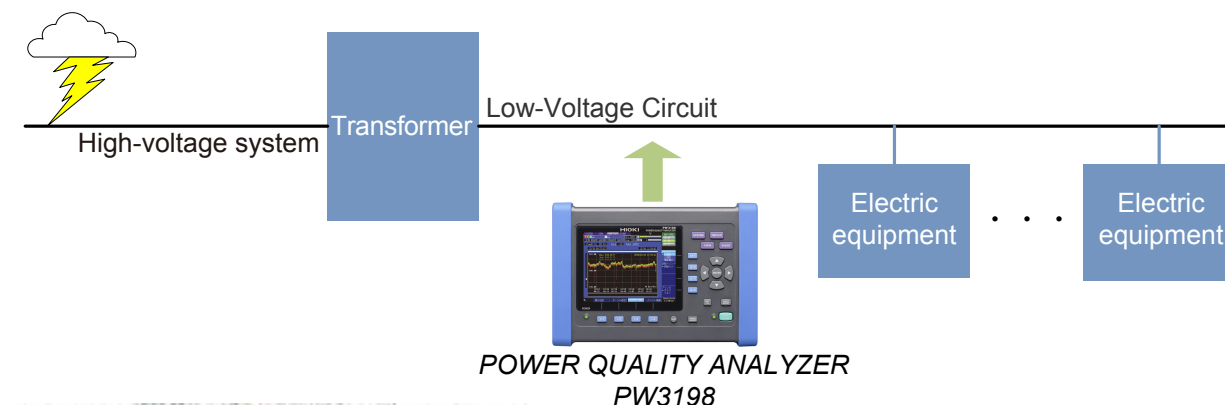
# Measure transient overvoltage waveforms

Use the PW3198 Power Quality Analyzer to properly detect transient overvoltage waveforms.

## ■Highlights

A transient overvoltage is generated by a lightning strike, a contact fault, a melting circuit breaker, or a relay that causes a voltage change.

High voltages occur especially near the source where the power supply is damaged and reset operations are triggered.



Example of transient overvoltage waveforms

	U1	U2	U3
Max	-116.0V	323.4V	98.4V
Min	-329.3V	153.5V	-55.1V
Transient p-p value	<b>213.3V</b>	<b>169.9V</b>	<b>153.5V</b>

Example of transient overvoltage

## Analysis example of above transient overvoltage waveform

1. Occurred in all 3 phases (R-S, S-T and T-R) simultaneously
2. Occurred twice in 1 cycle of the commercial waveform, and the interval between two events is 820  $\mu$ s
3. The level is between 120 V to 260 V peak-to-peak
4. The frequency is between 10 to 30 kHz

## Products used

- POWER QUALITY ANALYZER PW3198
- POWER QUALITY ANALYZER PW3198-90  
(PC Application software 9624-50 included)