POWERSIDE®

PQ1

A Power Quality Relay That Gets Straight To The Point

Sometimes it takes a simple solution to prevent big problems

When you need quick, clear information about the power quality running your equipment and machines, Powerside's handy PQ1 sensor fits the bill perfectly. Just turn the dial, select from 16 preset limits and receive immediate confirmation that your mains supply can handle the load, or that mains power quality meets a given standard. No software required.

A small investment to reduce risk

You potentially face liability if equipment and tools don't perform correctly. The effects of voltage distortion range from productivity losses, increased warranty and maintenance costs, to worse, operator injury. **Fast, easy-to-interpret answers save you the time and expense** of analysis, ineffective repairs and unhappy customers.

For a fraction of the cost of a power analyzer, the PQ1 effectively monitors and identifies sags, swells, interruptions, and impulses as short as 500 nanoseconds. Red and yellow lights alert you to present and past events, respectively. Relay contact outputs can send signals to your software applications for error logs, alarm processing and more.

APPLICATIONS

The PQ1 is perfect for verifying power quality performance in:

- **Semiconductor** manufacturing tools
- **Automatic** manufacturing systems
- **Elevator** controls
- **Medical** equipment
- **Data** centers
- **Shipboard and aircraft** instruments

Simple setup

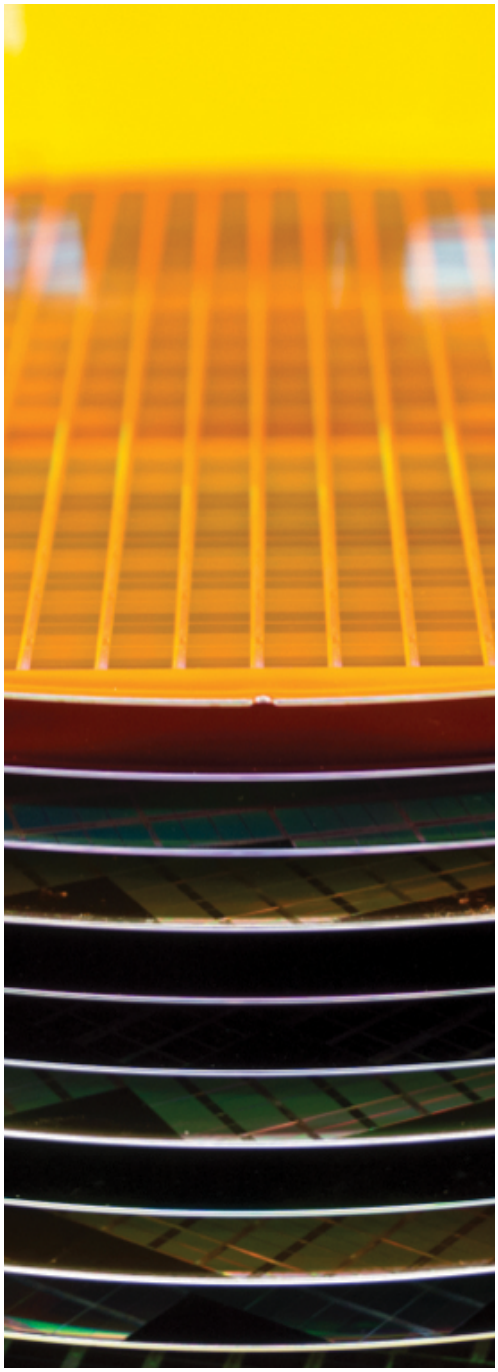
PQ1 easily integrates into to your power mains with DIN-rail or panel mounting, and can be used on individual phases or combined to monitor three-phase circuits. It automatically adapts to any international voltage between 100VAC (Japan) and 240VAC (U.S. and Europe), automatically finding the correct frequency. Higher voltages, including utility distribution voltages, can be monitored through an external transformer.

PQ1 also comes ready to meet international power quality standards: all you have to do is dial in the nominal voltage and select your response curve (or choose "standard.") This powerful device can also deliver distinct relay outputs for sag, major sag and swell/impulse.

PQ1 is pre-configured with depth-duration thresholds based on international standards:

- International Electrotechnical Commission (IEC)
- European Norm (EN)
- Computer Business Equipment Manufacturing Association (CBEMA)
- Information Technology Industry Council (ITIC)
- SEMI
- U.S. Military Specifications (MIL-SPEC)
- Electrical Equipment Technology Standards (Japan)
- National Electricity Regulator of South Africa

The PQ1's normally closed relay contacts open for 3 seconds each time a disturbance is detected — **providing immediate interface to counters, error logs, alarms, SCADA systems and PLCs.**



Setting new standards of performance starts with the PQ1 Power Quality Relay. Order yours today.

powerside.com/pq1-power-quality-sensor

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