

## Critical Asset Monitoring

Organizations are reliant on clean power – the integrity of electrical and electronic equipment ensures continuity of productivity; downtime directly impacts the bottom line. ACR Data Logging Solutions provide an effective means of monitoring Critical Asset Exposure to bad power.

Uninterruptible Power Supplies (UPS) are purported as the best protection against power disturbances and outages reducing the risk of losing valuable data or damaging hardware. The fact is, UPS reliability is not 100% and enterprises have a false sense of security that their information technology, electronic equipment and data assets are safeguarded. Installing a Power Quality Recorder will expose the severity of the situation. A portable wall adapter style recorder can be plugged in next to a computer or machine. Event disturbances are recorded 24/7 365 days a year regardless of the system's state.



## Challenge:

### Not all UPS equipment is created equal

There are three main functions of UPS devices: Battery Backup, Transient Voltage Surge Suppression (TVSS) and Power Conditioner. There is a myriad of technologies to accomplish these and every one has its pros and cons, but it is really important that the UPS selected is adequate for the task at hand. How do you know the protection equipment is providing an uninterrupted supply of good quality power regardless of external events let alone causing events of their own?

### UPS equipment can fail

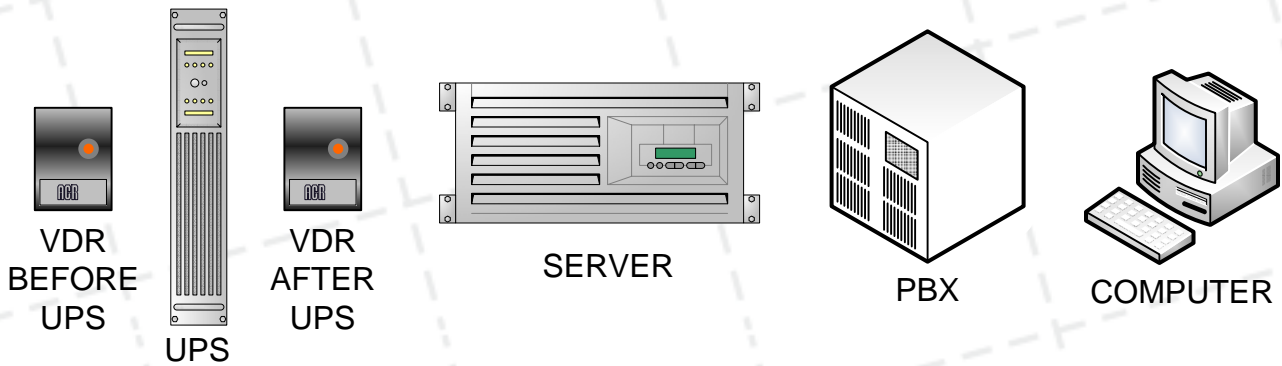
Although a UPS is supposed to protect your computer from disaster, it is also a potential source of failure. If any portion of protection breaks down, the system becomes vulnerable and critical assets including data may be lost if a catastrophic event occurs. How do you know critical equipment is protected when the ingress of power pollutants causes degradation and damage over time?

## Solution:

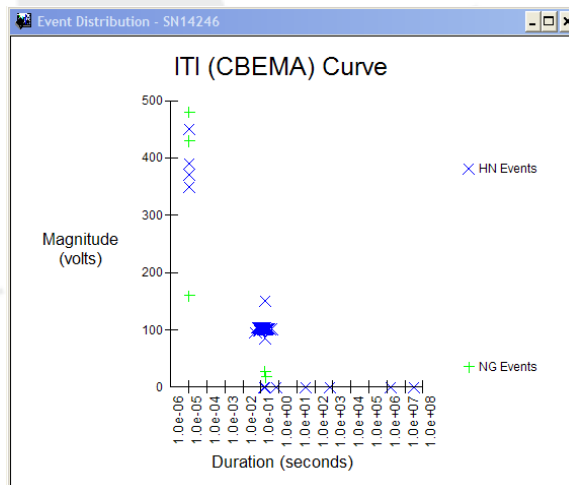
Protect mission critical equipment by testing power quality - both the main power and the output UPS power. ACR's PowerWatch is a self-contained and portable voltage disturbance recorder that plugs into a standard power outlet. This device records surges, sags, impulses, dropouts, outages and frequency variations - all power pollutants that may be harmful.

With no wires to connect, ACR's PowerWatch is easily deployed in indoor environments. A 10-year internal battery ensures long life and continuous operation. Powerful and easy to use software displays thousands of events quickly and accurately validating the state of the UPS performance and power.





Events occurring before the UPS should not appear after let alone have new ones created. Batteries have a shelf life and can suffer from deep discharge, TVSS protection degrades based on severity of transients, heat dissipation from power conditioning causes premature failure - all of which leads to a false sense of security when relying on a single device. Ignore UPS power related problems and eventually suffer from degradation, disruption and ultimate destruction.



## Deploying the data logger and downloading the information is easy...

**CAUTION: CHECK THAT LINE VOLTAGE MATCHES DEVICE RATING BEFORE PLUGGING IN**

1. Simply plug the ACR PowerWatch Voltage Disturbance Recorder into the same source as the UPS or output.
2. Connect the logger to an Interface Cable and with PowerWatch software installed on your computer, view the real-time status.
3. Test the system by tripping the breaker or UPS. Verify that the indicator light is flashing. Download the event data. Reset the PowerWatch.

**TIP:** Include visual inspection of PowerWatch events stored indicator during routine procedures such as data backup. This will ensure that protection is working adequately to prevent catastrophe.

## Ordering Information:

Equipment	Description	Catalog No.
PWV-100	Software, PowerWatch c/w CD Interface Cable and Manual	01-0060
PWV-001	Recorder, PowerWatch Voltage, 120V	01-0066
PWV-002-U	Recorder, PowerWatch Voltage, 230/240V, United Kingdom	01-0200
PWV-002-A	Recorder, PowerWatch Voltage, 230/240V, Australia	01-0205
PWV-002-E	Recorder, PowerWatch Voltage, 220/230V, Europe	01-0215
PWA-001	Adapter, PowerWatch, 240V North America	21-0039
PWA-002	Adapter, PowerWatch, 220/230V Chile/Italy	21-0043
PWA-003	Adapter, PowerWatch, 230V Swiss - Shuko	21-0040

Note: See PowerWatch Country Guide - Product Selector Document No. 00-0667 to help choose.

