



KEEPING YOUR WASTEWATER TREATMENT PLANT RUNNING WITH SINETAMER®

Do any of these issues sound familiar?

- Unexplained equipment downtime
- Premature component failure and unexpected power events
- False zero crossings of the sine wave
- Communication errors and ghost errors

Other common problems include incorrect operation of borehole depth sensors, rotary valves, fire alarms and residual current devices. Meanwhile, ACB false ground faults and interference on analogue signals are also possibilities.

In many water and wastewater plants, the root of power quality issues is non-linear loads, often variable frequency drives (VFDs). Operators use these to control the speed and torque of motors driving critical equipment, but they can disrupt operations.

You can easily spend hours trying to find the cause of your plant's downtime — and still not get to the bottom of things. Installing a mitigation device can help you solve these common issues and avoid the costly effects of downtime.

WHAT IS SINETAMER®?

SineTamer® is a transient voltage surge suppression (TVSS) device that protects variable frequency AC/DC drives and other sensitive electrical systems. Unlike traditional Surge Protection Devices (SPD's), it uses special frequency attenuation that is frequency-actuated rather than voltage-actuated. Therefore, the device can actively track and follow the sinewave form — protecting all 360 degrees of it, not just the extremes.



WHY CHOOSE SINETAMER®?

Relying on standard low-cost SPD's is problematic. Once they've blown following a transient, the site will no longer be protected. As well as this, conventional surge arrestors and protectors will only kick in once the voltage hits a certain threshold — by which point, significant let-through voltage has built up. SineTamer® is unique because it can take multiple hits and continue protecting even after an incident has occurred. As well as this, it can minimise let-through voltage, preventing issues later down the line.

As well as installing SineTamer®, we offer our dedicated measure, analyse, report, and solve (M.A.R.S.) service. As part of this, we can capture, review, and analyse any transient data and feed it back to you in a detailed report.



TRANSIENTS



SUPRA-HARMONICS



REACTIVE POWER



NETWORK UNBALANCE



OSCILLATIONS



VOLTAGE VARIATIONS



FLICKER

CONTACT CPA'S POWER QUALITY TEAM — WE CAN IDENTIFY THE ROOT OF THE PROBLEM AND HELP YOU SOLVE ANY ISSUES AS PART OF OUR MISSION TO M.A.R.S.

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