



CP Automation
Keeping industry
in motion

PROTECTING WATER AND WASTEWATER OPERATIONS FROM POWER QUALITY ISSUES

AVC-RTS – dynamic voltage sag correction

WHY POWER QUALITY MATTERS IN WATER AND WASTEWATER FACILITIES

Water and wastewater facilities rely heavily on automation, drives, pumps, PLC systems and control equipment. Even short voltage disturbances can cause:

- Pump and motor trips
- PLC and SCADA resets
- Process interruptions
- Equipment stress and premature failure
- Compliance and operational risks

Voltage sags and dips occur frequently and often last less than two seconds, yet they can still shut down critical water infrastructure.



THE SOLUTION: **AVC-RTS**

The AVC RTS (Automatic Voltage Compensation – Real Time Series) is designed to protect critical processes from voltage sags, swells and short interruptions. Installed in series with your supply, the system instantly compensates for voltage disturbances to maintain stable power to sensitive equipment.

KEY BENEFITS

- Instant voltage sag correction
- Protection from short power interruptions
- Maintains stable voltage for drives and control systems
- Improves plant uptime and process reliability
- Reduces costly downtime events

Contact CPA's power quality team — we can help you get to the root of the problem! Visit www.cpaltd.net

Email: sales@cpaltd.net
Tel: +44 (0) 1724 851515



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DESIGNED FOR WATER INDUSTRY APPLICATIONS.

The AVC RTS protects critical equipment such as:

- PUMPING STATIONS
- VARIABLE SPEED DRIVES (VSDS)
- SCADA AND PLC CONTROL SYSTEMS
- CHEMICAL DOSING SYSTEMS
- TREATMENT PLANT AUTOMATION

With the AVC RTS installed, facilities can ride through common grid disturbances without a process shutdown

WHY CHOOSE CP AUTOMATION?

CP Automation specialises in power quality and automation reliability for critical infrastructure. We provide:

**POWER QUALITY
ASSESSMENT**

**APPLICATION
ENGINEERING**

**INSTALLATION
SUPPORT**

**ONGOING TECHNICAL
SERVICE**

COMMISSIONING

We can provide the AVC-RTS as part of our mission to **M.A.R.S.**, which stands for **Measure, Analyse, Report and Solve**. This is a structured process that can help water and wastewater facilities identify, understand and solve power quality issues.

As part of this service, our team can capture real-time waveform data across your site using advanced fixed and portable power quality meters before interpreting power quality trends to identify any disturbances.

We can also provide clear, data-backed reports that summarise findings and highlight potential risks to your process reliability. Finally, we can recommend and supply appropriate mitigation solutions, whether it's a dynamic voltage correction system like the AVC RTS or something else.

Head Office

Unit 8, Ashley Industrial Estate,
Exmoor Avenue,
Scunthorpe,
DN15 8NJ

Tel: +44 (0) 1724 851515

For power quality enquiries: sales@cpaltd.net

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