

AUTOMATION SYSTEM BENEFITS

Smart
Instrument(s)

Integrated
Instruments/ PI
Control Solution
Single/Multiple Vendors

Comprehensive
Intelligent
Control
Open Source

Process Performance Improvement (N & DN)		5-15% Gain	10-20% Gain	20-25% Gain
Dissolved Oxygen	Single Zone	✓	✓	✓
	Multiple Zone		✓	✓
	Infinite Zone			✓
Solids Residence Time			✓	✓
Internal Mixed Liquor Recycle			✓	✓
Swing Zone Mixing				✓
External Carbon Dosing			✓	✓
Influent Carbon Shunt				✓
Flocculent Dosing			✓	✓
Aeration Energy Savings		0% Gain	10-40% Gain	15-50% Gain
Error Adjusting			✓	
Error Accounting				✓
Airflow Control	Pressure MOV		✓	
	Airflow MOV		✓	✓
	Dynamic Airflow MOV			✓
Blower Control	Pressure		✓	✓
	Airflow			✓
95% - 0.5mg/L DO Setpoint control				✓
Application Flexibility		Low	Low	High
All Process Configurations				✓
All Instrument Brands				✓
All Communication Protocols				✓
All PLC Brands				✓
Expandable				✓
System Reliability		Low	Medium	High
Instrument Monitoring		✓	✓	✓
Extended Actuator Life				✓
Backup & Fail-safes			✓	✓
Process Dashboard & Reporting			✓	✓

Best Performance