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Technical Specifications BIOS Controller

Dynamic DO Setpoint Control

Frequency	Every 15 minutes or more
Accuracy	< ± 0.1 mg/l Dissolved Oxygen

Dynamic Internal Recirculation Control

Frequency	Every 15 minutes or more
Accuracy	< ± 10% (Flow Paced)

Controller Specifications:

Processor	CompactLogix L35E (Allen-Bradley)
User Memory	1.5 MB
Expandability	5 I/O and /or communication modules

General Specifications:

Dimensions (HxWxD) inches	33.06x24x11.06
Weight	115 lbs.
Enclosure Ratings	NEMA 4x, IP 66
Temperature Rating (Controller system)	-21° to 131° F (-30° to 55°C)

Electrical Specifications:

AC Power Supply	115 VAC 60 Hz
Average Current Consumption	5A
Maximum Current Consumption	8A

Data Display and User Interface:

Display Screen	Color Active Matrix Thin Film Transistor (TFT) 9.7 X 7.3 inches (W X H)
User Interface	Analog resistive touch screen

Analog Inputs (optional):

Channel	8 (individually isolated)
Range	+/-100mV, 0 – 5V, 0 – 10V, +/-10V , 0 – 20mA, 4-20mA
Input Impedance	>10M Ω Voltage, <250 Ω Current
Resolution	16 bits

Ethernet Communication:

Protocol	EtherNet/IP messages encapsulated within standard TCP/UDP/IP protocol, or MODBUS TCP/IP
Common Application Layer	ControlNet and DeviceNet
Cable	Category 5 twisted pair cable
Speed	Half/Full Duplex 10 Mbit or 100 Mbit operation