

Buffer Recognition	Yes
Certifications	CE, NEMA 4X, Made in USA, CUL, ETL, RoHS, ULC, IP-65
Connectivity / Communications	RS-485 and RS-232 standard, Ethernet and wireless optional
Data Management	AquaManager™ Software integrates process control, alarming, and data management into one product
Desktop Software Compatible	AquaManager®, Windows 2000/XP/Vista/Windows 7 operating systems
Display	Back-lit graphic LCD (320 x 240) with timer, extended temperature range LCD
Equipment used with	AquaManager Desktop Software, 5420-4, or 30, 5421-4, 20, 20 or 30, 10
GLP Compliance	Yes
Logging Capabilities	Yes
Measurement Method / Channels	pH, 0 to 5.0 VDC or 4-20 mA) 8 each 10 amp 115 VAC (5 amp 230 VAC) relay, 4 DO probe inputs 4 user-configurable inputs for temp (0 to 1.0 VDC, digital (0 to 1.0 VDC, photo period, etc. 2 user-configurable inputs, TGP, ORP, 0 to 5.0 VDC or 4-20 mA) or DO

Memory	Non-volatile, 1000 data, 1250 relay/alarm, 1000 entries/change and 500 GLP records
Monitoring	Yes
Operating Temperature	-15 to +70°C (5 to 158°F), direct outside conditions with NEMA 4X enclosure
Parameters Measured	Dissolved Oxygen % Saturation, Dissolved Oxygen mg/L, Temperature (optional)
Power	12 V DC, mobile live haul or anytime AC power not available
User Calibratable	Yes
User Replaceable	Yes
Warranty	2-years instrument; 1-year probes and cable
Waterproof	Yes
Specification	
Timers	4 timers - 10 events cascading events start/duration 1 feed timer channel (feeder not included); Feed Smart software manages feed delivery, user-selectable inputs for number of daily feedings, daily feed weights, total biomass, FCRS and parameter control

Specification

Output Relays 8 each 10 amp 115 VAC (5 amp 230 VAC) relays for parameter, control and/or alarm
E-mail and/or SMS alarming up to 3 e-mails with Ethernet module or up to 10 e-mails with AquaManager

Field Upgradeable Software Yes; flash based

Height 6.5 in, 16.5 cm

Length 8.5 in, 21.6 cm

Depth 4.75 in, 12.1 cm

Parameter (units)	Range	Accuracy	Resolution
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Dissolved Oxygen* (% saturation)	0 to 500%	0 to 200%: $\pm 2\%$ or ± 0.2 mg/L, whichever is greater; 200 to 500%: $\pm 6\%$ of reading	0.1% air saturation
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Dissolved Oxygen* (mg/L, ppm)	0 to 60 mg/L	0 to 20 mg/L: ± 0.2 mg/L or $\pm 2\%$ of reading, whichever is greater; 20 to 60 mg/L: $\pm 6\%$ of reading	0 to 10 mg/L: 0.01 mg/L 10 – 60 mg/L: 0.1 mg/L
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Temperature (°C, °F)	0 to +45°C (32 to 113°F)	$\pm 0.2^\circ\text{C}$	0.1°C
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*Galvanic dissolved oxygen sensor. Response Time: 95% of reading in 17 seconds for 2.0 mil PE membrane; 95% of reading in 36 seconds for 2.0 mil Teflon® membrane.

Specifications indicate typical performance and are subject to change.
