



YSI 5400 Continuous MultiDO System Monitor

Designed specifically for aquaculture systems, the YSI 5400 Continuous Monitor for dissolved oxygen and AquaManager® Software can be used to integrate process control, feeding, alarming and data management into one product or can be used to simply monitor one tank. Powerful enough to manage a full-scale farming operation from anywhere in the world yet simple enough for anyone to use.



- MultiDO monitor
- Ethernet TCP/IP or wireless communications - optional
- Event logging records calibrations, high and low conditions, etc
- Conditional feed timer with Feed Smart™ software included
- Networking capability up to 32 instruments per communications port or can be integrated with 5200A multiparameter monitors
- Graphic interface function for quick, reliable system status checks
- Plug-and-play...easy to install, setup and maintain; no need to hire consultants
- Flexible monitoring and control software
- E-mail and SMS alarming

The standard conditional feed timer, **Feed Smart™**, manages food delivery based on user's preset criteria. Manage feed delivery based on user-selectable inputs for the number of daily feedings, daily feed weights, total biomass and feed conversion ratios (FCRs), along with parameter control based on water quality values. Interfaces with most auto feeders.

Optional **AquaManager®** desktop software allows you to view, configure, or setup instruments from the convenience of one central location. Instantly see an overview of your facility, manage parameter set points, and conveniently manage data to make informed operational decisions. Browser-based format makes navigation, setup and maintenance easy and the facility mapping feature provides an immediate overview of all ponds or tanks indicating their current state.

Pure
Data for a
Healthy
Planet.®

A powerful, cost-effective solution for monitoring DO in aquaculture systems.

Applications:

- Recirculating systems
- Raceways
- Ponds
- Sea cages
- Live haul
- Aquariums
- Research
- Tanks





+1 937 767 7241
 800 897 4151 (US)
 www.yssi.com
 environmental@yssi.com

YSI Integrated Systems & Services
 +1 508 748 0366
 systems@yssi.com

SonTek/YSI
 +1 858 546 8327
 inquiry@sontek.com

YSI Gulf Coast
 +1 225 753 2650
 environmental@yssi.com

YSI Hydrodata
 European Support Centre
 +44 1462 673 581
 europe@yssi.com
 ireland@yssi.com

YSI Abu Dhabi Co. Ltd.
 +971 2 56 31 316
 samer@nanotech.co.jp

YSI (Hong Kong) Limited
 +852 2891 8154
 hongkong@yssi.com

YSI (China) Limited
 +86 10 5203 9675
 beijing@yssi-china.com

YSI Nanotech (Japan)
 +81 44 222 0009
 nanotech@yssi.com

YSI South-Asia
 +91 989 122 0639
 sham@yssi.com

YSI Australia
 +61 7 390 17223
 acorbett@yssi.com

ISO 9001
 ISO 14001

AquaManager, Feed Smart, Pure Data for a Healthy Planet and Who's Minding the Planet? are registered trademarks of YSI Incorporated.

©2010 YSI Incorporated
 Printed in USA 0610 W46



Specifications are subject to change. Please visit www.YSI.com to verify all specs.

YSI incorporated
 Who's Minding the Planet?™

YSI 5400 System Specifications

Dissolved Oxygen (Galvanic or polarographic)	Range	0 to 500% air saturation; 0 to 60 mg/L
	Resolution	0.1% (0.0-99.9%); 0.01 mg/L (0- 10 mg/L); 0.1 mg/L (10-60 mg/L)
	Accuracy	±2% or ±0.2 mg/L whichever is greater (0-200%)(0-20 mg/L), ±6% of reading (200- 500%) (20-60 mg/L)
	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
Temperature	Range	0 to 45 °C (32 to 113 °F)
	Resolution	0.1 °C
	Accuracy	± 0.2 °C
Timers	4 timers - 10 events cascading events start/duration	
	4 feed timers (feeder not supplied); Feed Smart™ software manages feed delivery, user-selectable inputs for number of daily feedings, daily feed weights, total biomass, FCRs and parameter control	
Communication Ports	RS485 and RS232 standard; Ethernet and wireless optional	
Memory/Logging	Non-volatile; 1000 data, 1250 relay/alarm, 1000 entries/change and 500 GLP records	
Warranty	2-years instrument; 1-year probes and cable	
Inputs	4 DO probe inputs	
	4 user-configurable inputs for temp (0 to 1.0 VDC, 0 to 5.0 VDC or 4-20 mA) or DO, pH TGP, ORP, photo period, etc.	
	2 user-configurable inputs, digital (0 to 1.0 VDC, 0 to 5.0 VDC or 4-20 mA)	
Ratings	NEMA 4X, CE, ULC, CUL, ETL, RoHS, IP-65, Made in USA	
Instrument Operating Range	-15 to 70°C (5 to 158 °F)	
Output Relays	Direct exposure to outside conditions NEMA 4X Enclosure	
Power Requirements	Option 1	12 VDC; mobile live haul or anytime AC power not available
	Option 2	100-240 VAC; automatically switches to 12 VDC back-up with alarm if primary voltage drops
Display	Back-lit graphic LCD (320 x 240) with timer, extended temperature range LCD	
Operating System	AquaManager Software: Windows 2000/XP/Vista/Windows 7 operating systems	
Field Upgradable Software	Yes; flash based	
Size	Height: 16.5 cm (6.5 in)	
	Length: 21.6 cm (8.5 in)	
	Depth: 12.1 cm (4.75 in)	

5400 Ordering Information (Order items separately)

5400-DC	MultiDO monitor, 12 VDC, includes wall mount, no power supply
5400-AC	MultiDO monitor, 100-240 VAC, includes wall mount and 115 VAC
605952-X	4- 10- 20- or 30-m cable with galvanic DO (special order up to 100-m)
605953-X	4- 10- 20- or 30-m cable with galvanic DO/temp (special order up to 100-m)

Accessories Ordering Information

5405-5	DO membrane kit, 2 mil Teflon, 5 membranes, electrolyte
5405-25	DO membrane kit, 2 mil Teflon, 25 membranes, electrolyte
5406	1 pint, DO electrolyte
6505	Weather shield
6509	Rail mount kit
6510	Panel mount kit
5209A	AquaManager desktop software
5578	12 V power supply, 230 VAC for 5400-AC
5579	12 V power supply, 115 VAC for 5400-DC



The 5400's galvanic DO probe.