

## What is it?

AMR PEMCO's FISH-NET Monitoring System is an outdoor monitoring platform, which determines Dissolved Oxygen (DO) content and temperature levels in ponds, lakes, tanks, or other bodies of fresh and salt water. Capable of monitoring either a single body of water, or two (2) simultaneously, each FISH-NET Control Unit utilizes real-time DO and temperature data to control up to eight (8) outputs for aerators & motor amp monitoring.

Employing wireless communications between the floating buoy(s) and the nearby Control Unit, FISH-NET provides for easy and flexible installations and reliable communications. The Control Unit further offers wireless communications to our unique FISH-NET Software and Master Station. Located at the home or office, the Master Station allows users to remotely view the status of multiple ponds, store data for historical records or trending reports, and receive SMS/text or email alarm notifications, should values exceed the user-defined set points.

Simply put, whether you own a small, medium, or large aquaculture operation, FISH-NET will reduce operating costs, improve efficiency, and help maintain your ponds and fish.



## Features And Benefits

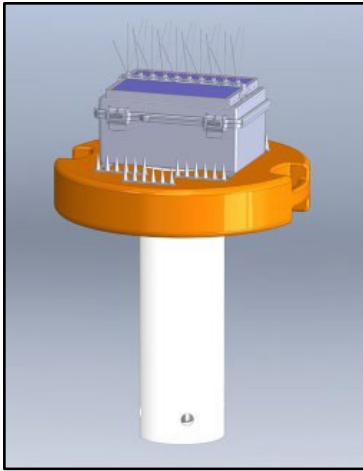
- Local and remote DO monitoring with aerator control
- Large, touch screen display for easy viewing in sunlight or from several feet away
- Aerator status and important information available at the controller
- Monitor up to two (2) ponds with one controller and two (2) buoys
- Two (2) temperature sensors, ambient air and water, for improved accuracy and DO calibrations
- **VERY** low annual maintenance costs
- Once a year calibration (needed at most) on new DO Probe
- No annual replacement parts needed
- No chemicals needed in order to keep the probe clean
- No moving parts or motors that need maintenance or annual replacement
- Dual radios for controller-to-buoy and controller-to-master communications
- Two aeration set points for customized schedules (Day, Night, etc.)
- Sunshield included for improved display and visibility
- UPS/battery backup for controller and buoys



**FN-2002 Controller**

## Applications Include

- Catfish Farms
- Family Farms
- Tilapia Farms
- Treatment Plants
- Shrimp Farms
- Industrial Facilities
- Recreational Lakes



**New Pro Buoy with Optional Bird Deterrent Package**



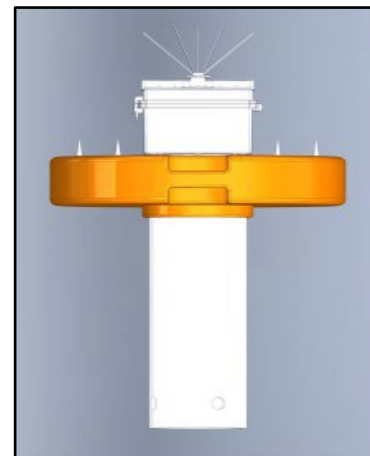
**Controller Touch Screen with Keypad**

**SPECIFICATIONS**

<b>Controller Enclosure</b>	NEMA 3R, Powder Coated Steel
<b>Controller Rating</b>	NEMA 4 for harsh environments
<b>Source Voltage</b>	120VAC
<b>Operating Voltage</b>	12VDC
<b>Operating Temp</b>	-20 to 70C
<b>Controller Dimensions</b>	16" W x 20" H x 8"D (40.64 cm x 50.8 cm x 20.32 cm)
<b>Display</b>	1/4 VGA display (320 x 240 pixels) 4096x 4096 analog touchscreen
<b>Standard Feature</b>	Display Sunshield
<b>Keypad</b>	9 - key with on/off white LED backlight
<b>Radio Frequency</b>	900MHz
<b>Input Signals</b>	(2) Water Buoys with DO Sensors
<b>Outputs</b>	(8) for Aerator Motors or other equipment
<b>Lightning Protection</b>	YES
<b>Warranty</b>	1 year
<b>Options</b>	3-phase power monitor relay Current Monitoring Transducers (CT's)
<b>UV Light</b>	UVC with 2 year expected life
<b>Warranty</b>	2 years on UVC Light
<b>DO Probe</b>	Measuring Range: 0 to 25ppm Accuracy: 1% of the reading or .05 ppm, whichever is greater Repeatability: 0.01 ppm. Response Time: 95% in under 60 seconds
<b>Warranty</b>	5 years on Optical DO Probe

**New Features on Pro Buoy**

- NO moving parts with new optical fluorescent DO probe
- NO pump needed & associated maintenance
- UV (ultraviolet) Scrubber light to destroy algae
- 20 inch round float for stability against wind & birds
- Designed to reduce lightning damage
- System diagnostic monitoring helps detect problems before you have a hardware failure
- 100% solar – powered buoy or 12VDC
- Pond oxygen level controls not dependent on control from Master Station
- New optional Bird Deterrent Package



**New Pro Buoy Rendering**