



***AMR* PEMCO**

PROVEN PARTNER IN TECHNOLOGY

WWW.AMRPEMCO.COM

Corporate Overview



- AMR PEMCO and sister companies operate to provide electronic monitoring, controls, communications, tracking, and collision avoidance systems as well as industrial buildings, circuit breakers, dry-type transformers, and automation integration.
- Markets served include global mining, aggregates, tunneling, power generation, utilities, transit, nuclear, water/wastewater, and general industry.
- Primary sales in the U.S., Canada, Mexico, India, South Africa, and South America with sales in many other countries around the world.

AMR est. 1975



ERM est. 1979



CMS est. 1995



PEMCO est. 1960 - Acquired in 2016



Delivering Projects Worldwide



Codes and Certifications



American
Welding Society



Experience With Popular Brands



GE Infrastructure
Water & Process Technologies



Clients and Customers



NORTHROP GRUMMAN

Balfour Beatty



TMEiC



**Rockwell
Automation**



Core Capabilities



- Industrial & control buildings (ICB) and equipment enclosures including HVAC systems and design, installation and integration of all types of electrical equipment
- Complete skid mounted systems including switchgear, AC & DC Drives, transformers and control systems
- Complete skid mounted power centers and substations for harsh duty applications
- Custom designed dry type transformers up to 4 MVA and 25kV class.
- Specialty magnetics for custom applications including reactors, inductors, and rectifier duty transformers
- UL and CSA certified control panels with custom enclosure design and fabrication
- 3D modeling capabilities for all enclosures and bus assemblies.
- Electrical, mechanical, and transformer engineering



AQUACULTURE SOLUTIONS

FISH-NET Monitoring System



AMR PEMCO's FISH-NET Monitoring System is an outdoor monitoring platform, which determines Dissolved Oxygen 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 simultaneously, each FISH-NET Control Unit utilizes real-time DO and temperature data to control up to eight outputs for aerators.

Employing wireless communications between the floating buoys 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 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.



Aquaculture



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
- DO sensor is mounted above the water for extended life
- Single water sample pump with adjustable time rate (10 Minute Default)
- Dual radios for controller-to-buoy and controller-to-master communications
- Two aeration setpoints for customized schedules (Day, Night, etc.)
- Sunshield included for improved display visibility
- Optional battery backup for controller and buoys



Specifications



SPECIFICATIONS	
Controller Enclosure	NEMA 3R, Powder Coated Steel
Controller Rating	NEMA 4 for harsh environments
Source Voltage	120VAC
Operating Voltage	12VDC
Operating Temp	-20 to 70C
Controller Dimensions	16" W x 20" H x 8"D (40.64 cm x 50.8 cm x 20.32 cm)
Display	1/4 VGA display (320 x 240 pixels) 4096x 4096 analog touchscreen
Standard Feature	Display Sunshield
Keypad	9 - key with on/off white LED backlight
Radio Frequency	900MHz
Input Signals	(2) Water Buoys with DO Sensors
Outputs	(8) for Aerator Motors or other equipment
Lightning Protection	YES
Warranty	1 year
Options	3-phase power monitor relay Current Monitoring Transducers (CT's)
UV Light	UV-C with 1 year expected life
Warranty	1 year on UV-C Light
DO Probe	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
Warranty	5 years on Optical DO Probe



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