



WWW.AMRPEMCO.COM

Corporate Overview

AMR PEM/CO

- 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.





ERM est. 1979











PEMCO est. 1960 - Acquired in 2016



Delivering Projects Worldwide





Codes and Certifications



































Experience With Popular Brands



















































Clients and Customers

















aps





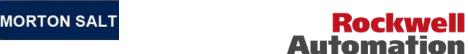
















Core Capabilities



- 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





MINE NET MESH WI-FI SYSTEMS

Mine Net Mesh Wi-Fi Systems



Mine Net Mesh is the second generation of AMR PEMCO's communications and tracking solutions adding real time voice and 802.11 data connectivity. The primary purpose of these systems is to expedite miner location and rescue efforts, but they also greatly increase productivity during daily operations.



VolP Handset



- 2.4 GHz, IEEE 802.11 Compliant
- Send preset or custom text message to a single person, a few, all users or the system operator
- Continuous calls and Push-To-Talk (PTT) voice options
- PTT allows broadcast calls and call groups
- NEMA 4X with rubber grips
- LCD Color Display



VolP Handset Specifications



Enclosure Dimensions:	4.75"L x 2.25"W x 1.1"D 120.65mm x 57.15 x 27.94	
Enclosure Type:	NEMA 4X, Molded Plastic with rubber grips	
Unit Weight:	12 oz (168 g)	
Frequency:	2.4 GHz	
Gain:	1.6 dBi	
Power Output:	+ 18 dBm	
Operating Voltage:	3.7 VDC	
Battery Type:	Lithium-lon, 1500 mAh	
Battery Life:	16 Hours (Rechargeable)	
Operating Temperature:	0° to 70° C	
Inputs:	Battery Charger Port	
Outputs:	3.5mm Headphone Port	
Display:	LCD Color Display	
Communication Protocol:	IEEE 802.11	
Address Range:	All TCP / IPv4 Addresses	

MN-6400 Wireless Access Point



- Configurable as Tracking only, Texting with Tracking, or combined with Voice and 802.11 Wi-Fi Data
- Central Monitoring Station utilizes Windows-based software for tracking, reporting and mine map options
- System uses Voice over Internet Protocol (VoIP) for voice communication, and provides a high speed data network that can be accessed with virtually an Wi-Fi enabled device such as laptops, tablets, and Smart Phones
- Applications for Wi-Fi data also include wireless video cameras, environmental and process control device monitoring, or data collection from mine power centers and mining equipment
- Network security options include Wired Equivalent Privacy (WEP), Wi-Fi Protected Access (WPA), and 802.11 encryption types
- MSHA and International Intrinsically Safe Approvals are pending



MN-6400 Wireless Access Point Specifications



Enclosure Dimensions:	14"L x 14"W x 7"D 355.6mmx 355.6 x 177.8
Enclosure Type:	NEMA 4X, Powder Coated Aluminum
Unit Weight:	Node – 12 lbs (5.4 kg) Battery Pack – 56 lbs (25.4 kg)
Frequency:	2.4 GHz
Gain:	9-15 dB typical
Power Output:	Up to 30 dBm (1 Watt)
Operating Voltage:	3.6 VDC
Backup Battery:	Yes
Battery Type:	Lithium Iron Phosphate (LiFePO4) 720 Ah
Battery Life (Hours):	240+ (Rechargeable)
Current Consumption:	1.75 A typical. 2.7A max
Operating Temperature:	0° to 70° C
Inputs (configurable):	(2) Ethernet or Fiber Optic
Outputs:	(2) Antenna
Display:	LED Indicators
Communication Protocol:	IEEE 802.11
Address Range:	All TCP / IPv4 Addresses

Personnel Tag



The MN-6425 Wi-Fi Ranging Tag is the latest in precision wireless tracking for underground environments such as mines and tunnels. Available with multiple communication options, the tag is compatible with the AMR PEMCO Mine Net Mesh platform, the Collision Avoidance Protection System (CAPS), or a combination of the two systems. The unit is lightweight, rechargeable, and includes an integrated clip allowing personnel to place it prominently on their mid to upper body.



Personnel Tag Specifications



Dimensions: 2.25" H x 2.17" W x 1.13" T

55.15mm H x 55.12mm W x 28.7mm T

Weight: Less than 1 lb (0.45kg)

Operating Temperature: -20° C ~ 60° C -4° F ~ 140° F

Features and Benefits

- Rechargeable battery
- Provides tracking updates with the MineNetTM Mesh System
- Maintains tracking backwards compatibility with the original MineNetTM System
- No buttons
- LED indicator.
- Pending MSHA Approval

MineWeb



Features and Benefits

- Web-based application for personnel and equipment tracking in underground mining
- Complements MineNet[™] Mesh, Wi-Fi
 based communication and tracking system
- Replaces MineNetTM top end
- Connect to multiple MineNet[™] systems
- Personnel/equipment located on mine map with pan and zoom features
- Multiple remote clients can access the server database
- Standard SQL database
- Windows Server or Linux based operating systems compatible





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