



***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



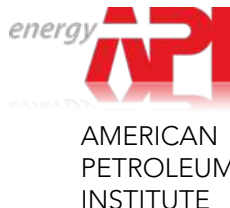
PEMCO est. 1960 - Acquired in 2016



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





GENERAL INDUSTRY PRODUCT SOLUTIONS

Atmospheric Monitoring Solutions



Since 1987, AMR PEMCO has provided the most flexible and reliable mine monitoring system available to the global mining market. Our systems optimize operations through real-time monitoring and control, allowing operators to pinpoint unsafe or hazardous areas, trend machinery data for preventative maintenance, and control devices remotely.



MC-6410 Multi Gas Monitor

Self-contained atmospheric monitoring solution in a rugged, NEMA 4X polycarbonate enclosure. Monitors multiple gas types simultaneously in dozens of unique configurations, the sensors operate at low current for increased energy efficiency.



MC-6415 Smoke Sensor

AMR PEMCO's Patented MC-6415 Wireless Smoke Sensor provides monitoring for smoke and/or fire conditions in key locations. The sensor has the capability of wireless or wired communications.

Atmospheric Monitoring Solutions



MC-4210 Single Gas Monitors

- One compact surface mount PC board for sensor and communications
- Wide range four-digit display
- Calibrated without removing cover
- Non-intrusive sensor test and calibration with automatic surface reporting
- Available for eight different gases: CO, CH₄, O₂, NO, NO₂, H₂, H₂S, and SO₂



MC-4210-CO/NO

Designed to significantly reduce the nuisance alarms associated with using diesel equipment in coal mines. In addition to emitting carbon monoxide (CO), the diesel engine also emits nitric oxide (NO) in a CO/NO ratio of approximately 4:1. Using two gas sensing cells, the monitor employs the same CO sensing cell and circuitry used in the traditional MC-4210-CO gas monitor along with another NO cell and its associated sensing circuitry.

Atmospheric Monitoring Solutions



MC-4210-CH4-IR (Infrared)

The MC-4210-CH4-IR Addressable Sensor is a compact monitor designed to be used with our MC-4000 System. The MC-4210-CH4-IR offers a very low current draw and is easily addressable by using three rotary switches. Units can be configured for multiple communications protocols, analog operation, or stand-alone. The enclosure is coated with a RF shielding to prevent interference from two-way communication devices.



MC-4231-CO

- One compact surface mount PC board for sensor and communications
- Wide range four-digit display
- Calibrated without removing cover
- Non-intrusive sensor test and calibration with automatic surface reporting
- Highly visible 360 degree LED array
- 103 decibel Sonalert alarm

Control Panels



Features:

- UL® 508A Listed Panel Shop with CSA certification available
- Off-the-Shelf Hardware and Software Components
- Turnkey Services including – Design, Build, Program, Install, and Service
- Complete, Custom Metal Fabrication

Benefits:

- Experienced panel builder with on-staff engineers
- Automation services available for a total project solution
- Low Cost Hardware and Production for Cost Sensitive Projects
- Faster Project Approval, Coordination and Completion to meet any deadline
- Quicker and Easier Repairs for long term maintenance



Dry-Type Transformers



Dry-type Transformers

- 100 to 10,000 KVA (10 MVA)
- Primaries voltages up to 34.5 kV
- Meet all IEEE standards
- UL or CSA-approved varnish and VPI system
- Drive Rated, Rectifier Duty, Excitation and Static Start applications
- Custom enclosure and packaging options
- Retrofits, rebuilds, and custom-designed upgrades available!



E-Houses and Control Buildings



Industrial Control Buildings

- ▣ Custom Control Panels, Copper Bus Assemblies, Termination Compartments, and other accessories available
- ▣ E-Houses, Deposit on Base Enclosures (DOBE), skid-mounted, and other styles
- ▣ Mild, stainless, and galvanized steel construction available
- ▣ Complete installation and electrical integration of all equipment
- ▣ Installation to NEC guidelines for acceptable work practices and clearances
- ▣ Engineering services for electrical integration



Electrical Distribution Equipment



Custom Panels

- Turn key solutions
- Custom enclosure design and manufacturing
- CSA/UL/CE certifications available
- Power and control panels
- Custom 3D copper bus bar design and fabrication
- Breaker cabinets

Custom Electrical Equipment

- Industrial & Control Buildings (ICBs) and equipment enclosures including HVAC systems and design, installation and integration of all types of electrical equipment

Specialty Magnetics

- Custom applications including reactors, inductors, and rectifier duty transformers



Ground Check Monitors



Ground Monitors continuously verify the integrity of the AC ground wire in heavy equipment trailing cables, and transmission lines between electrical distribution stations. Since 1975, AMR PEMCO has been a pioneer in ground monitor design and sold over 50,000 circuits worldwide. We offer pilotless and impedance style pilot wire versions for low to high voltage circuits up to 25KV.



GF-180

A ground fault occurs when one of the phase conductors of a cable comes in contact with the ground wire of that cable. This will cause current to be placed on the ground wire, giving it potential for electrical shock. Our GF-180 ground fault will detect a small amount of ground current and trip the circuit breaker.



GM-105

The GM-150 is pilotless and uses a 45 ohm trip resistance and a 250 ms time delay, which eliminates nuisance tripping from intermittent conditions in the cables and collector ring assemblies.

Ground Check Monitors



GM-200

The GM-200 Ground Monitor is pilot wireless, eliminating pilot wire costs, repair and lost downtime. The GM-200's installation cut-outs are compatible with many of the industry standards, so RETROFITTING on the modular output panels of the power distribution center can usually be done WITHOUT DRILLING ANY HOLES. Furthermore, we have SIMPLIFIED troubleshooting and repairs with our PLUG-IN DESIGN on all assemblies. Even replacing or adding cables requires no calibration.



GM-250

The GM-250 is the most advanced high voltage ground monitor on the market, available in both pilotless and pilot wire operation. Offering a 45 ohm trip resistance, 250 ms time delay for reduced nuisance tripping, and immunity to DC and AC stray currents. Easy installation and maintenance and approved to work with cable lengths to 10,000 feet, the GM-250 saves cable costs and repairs.

Ground Check Monitors



GM-300

AMR PEMCO's GM-300 Ground Check system is intended for use on all high voltage systems where a pilot wire is available. Ground Check systems using the GM-300 are suitable for applications on power systems up to 25kVAC including low and medium voltages. For power systems over 25kV, contact us for recommendations.



GM-105-XLD

The newest addition to the AMR PEMCO ground check monitoring line is the GM-105-XLD, "Extra Long Distance," impedance monitor. With an advanced 125 mA loop current, the XLD allows monitoring of cable lengths of up to 6.5km (4 miles).* The higher current loop provides more tolerance to connections or inline couplers, which can cause an increase in the resistance of the pilot circuit.



For more information please contact us at:

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