



WWW.AMRPEMCO.COM

Corporate Overview

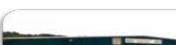
- AMR PEMCO and sister companies operate to provide electronic monitoring, controls, communications, tracking, and collision avoidance systems as well as industrial buildings, circuit breakers, dry-type transformers, and automation integration.
- Markets served include global mining, aggregates, tunneling, 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.





CMS est. 1995

FRM est. 1979











PEMCO est. 1960 - Acquired in 2016



Delivering Projects Worldwide





Codes and Certifications







































Experience With Popular Brands



















































Clients and Customers





































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



Aggregates



- AMR PEMCO offers decades of mining knowledge and experience to pit, quarry and aggregate operations
 - Electrical ground check / ground fault monitors
 - SCADA systems integration
 - Collision avoidance solutions
 - Speed and level sensors
 - All provide increased safety, efficiency, and productivity for any size operation
- Additional solutions that we offer utilize high-speed data communications and PLC controls to provide real-time sensor data with access to information from multiple computers including remote locations through radio, cellular, satellite, or Internet
 - Primary and secondary crushing, tertiary crushing, water pumps, and pug mills





AGGREGATES INDUSTRY PRODUCT SOLUTIONS

Collision Avoidance



- Designed to alert equipment operators of nearby personnel and other equipment, our Collision Avoidance Protection System (CAPS) reduces the risk of crushing and pinning accidents as well as vehicle to-vehicle collisions
- This is done by detecting when a person or vehicle enters the "Customized Protection Zone" around the machine. When a tagged asset enters the protection zone, the system activates up to three open collector outputs for audible, visual, or other alert response systems to warn the equipment operator and nearby personnel of the dangerous situation.



C.A.P.S Vehicle Tag

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 customdesigned 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 galvannealed 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.



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





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.

Electronic Circuit Breakers



AMR PEMCO's CB series offers greater safety than conventional breakers.

- Replaces molded case breakers
- No external arcing
- Extremely long life of operation
- Indicator lights for all faults: Phase overcurrent, Ground fault, Phase undervoltage, Unit fault, Ground monitor trip, Fuse/contact failure, Phase loss
- Self Test circuitry
- All protection functions in one package
- Easily tested by breaker test unit (BT-1000)
- Capable of remote control by any data acquisition system or PLC's.



CB-100

The CB-100 offers state-of-the-art technology that meets the most stringent safety standards while providing the reliability you demand in one rugged compact package. The CB-100 is a companion to the successful CB-1000 and is comparable in size with a 225 Amp molded case circuit breaker. However, the comparison ends with size, because the CB-100 offers you levels of safety and reliability unheard of in molded case breakers

Electronic Circuit Breakers





CB-1000

For the ultimate in power, safety and reliability, the CB-1000 combines motor control and fault sensing circuitry in one rugged package. Ground fault, under-voltage phase loss, ground monitor, and over-current sensing are featured on plug-in printed circuit boards housed in an easily maintained electronic package. The CB-1000 can be easily interfaced using control systems with its digital in/out port.



CB-PRO

- Reduction in maintenance downtime
- Eliminates molded case circuit breaker replacement
- Rated for 1 million trips useful life
- Increased trip accuracy leads to decreased troubleshoot time
- Eliminates nuisance tripping
- Prevents equipment damage
- Reduction in spare parts inventory

Remote Racking Systems



- Rated for 1 million phase to phase faults
- Includes the user interface, a 300-600
 Amp vacuum contactor, and selectable voltages from 480-995
- Designed to allow the circuit to be removed and repaired without having to de-energize the entire load center
- The racking of the drawer can be done remotely from up to 30 feet away with motorized attachment, to safeguard against possible arc flash exposure
- Once racked out, work can be performed throughout the drawer safely without exposure to the energized mobile load center
- Approved U.S. Patent



CB-RRS Series

With a molded case circuit breaker, a miner is placed in front of potential arcing hazards. With AMR PEMCO's patented CB Remote Racking System (RRS), the miner is only exposed to 5 Volts, and the built-in time delay allows the miner to be safely removed from potential arcing hazards.

Remote Telemetry



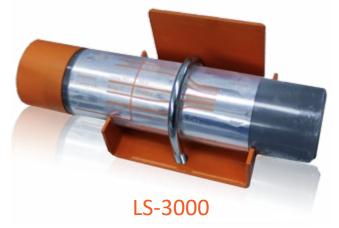
- AMR PEMCO is an authorized distributor for High Tide Technologies, a US-based technology company. High Tide offers a complete, but simple, SCADA solution utilizing Remote Telemetry Units (RTU's) via satellite or cellular.
- TelemetryVIEW enables easy access to information about remote equipment run times, electrical consumption, flow rates, tank levels, and more.
- Applications include:
 - Grinder Pump Status
 - Simple Alarm Systems
 - Remote Storage or Water Tanks
 - Field Instrumentation Monitoring
 - Managing Treatment Plants
 - Ventilation Fan Monitoring
 - Natural Gas Wells and Compressor Stations



Speed Sensors



The "Little Speedy" LS-3000 series is a compact "all-in-one" Slip or Sequence Control Switch utilizing a ferrous metal inductive pickup. "All-in-one" means the pickup with associated speed, delay, and control circuitry is an "all-in-one" package.



- Test button
- Environmentally sealed against dust and moisture
- Solid State Design
- Standard 25 foot cable 18AWG, 5 conductor
- Mounting bracket included
- Relay Output C, NO, NC 120VAC, 5 Amp



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LS-3040

- Environmentally sealed against dust and moisture
- Solid State Design
- 15 FT (4.5m), 18AWG, 2 conductor cable
- U-Bolts included for mounting
- Solid State Output Switch 120VAC @ 2 A

Tip Switches



AMR PEMCO's Tip Switches are simple and versatile units used to sense material levels at underground mines, strip mines, preparation plants and stone quarries. The TS-1900 switches have no moving parts and are potted to increase their durability. They are designed to be hung vertically, using the attached

eyehook.



TS-1905-NO

- Standard 6 foot cable 16AWG, 3 conductor
- Integral I-bolt for mounting
- Stainless steel construction with fins
- Activation 30 Degree
- Contact Output NO 120VAC, 7 Amp

TS-1915

- Standard 6 foot cable 16AWG, 3 conductor
- Integral I-bolt for mounting
- Stainless steel construction with fins
- Activation 15 Degree
- Contact Output NC 120VAC, 7 Amp

Tip Switches





TS-1925

- Standard 6 foot cable 16AWG, 3 conductor
- Integral I-bolt for mounting
- Galvaized pipe with bell
- Activation 15 Degree
- Contact Output NC 120VAC, 7 Amp



TS-1930

- Standard 6 foot cable 16AWG, 3 conductor
- Integral I-bolt for mounting
- Stainless steel construction
- Activation 30 Degree
- Contact Output NC 120VAC, 7 Amp



For more information please contact us at:

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