Process Controls Solutions

GRM 124

North American has been a provider of electronic process control systems for over 30 years. In addition to leading the way in PLC and PC based control systems, we are also a manufacturer of dedicated combustion control equipment for air/fuel ratio, furnace pressure, safety, and products of combustion analysis.

Averaging well over 300 systems per year, we have the experience and capabilities to provide our customers the finest in combustion, process, and material handling control systems.

The Values We Provide:

— **Single point responsibility.** Current production, environmental and energy conservation requirements have made control systems very important in the performance of combustion processes. We will ensure that performance, by combining the latest in burner technology with state-of-the-art controls.

— **Quality People and Support Staff.** We have forty engineers, designers, wiremen, testers, and technicians, all professionals and North American employees. Combustion control has been a serious business to us for over thirty years, it is not something we contract out.

— **Quality Procedures.** We set high design standards for ourselves. All of our systems are completely 'wet' tested for functionality, not just a 'point-to-point' wiring check. All valves, switches, actuators, transmitters, and thermocouple functions are simulated to verify correct system operation and sequencing. We are a UL shop.

— **Documentation.** The normal supply includes schematics, field wiring, bills of material, panel/door layout, full software documentation and sequence of operation plus 'cut sheets' for all components used.

PLC/OIT based combustion safety and process control system.

— **Field support.** Field service is not a problem with our over 25 field offices throughout the industrial world plus a trained, ready to travel, Cleveland based service staff. Phone support is always available from our control systems programmers and engineers.

— **Knowledge.**
Safety systems. North American has been providing combustion safety systems for over 40 years. We have been and are very active in the NFPA. We are familiar with and can meet insurance and government code requirements for locations all over the world.

Process experience. Because we manufacture the widest range of burner types and sizes, we have gained the widest range of process experience. Realizing the importance of process control in the performance of the combustion system, we have become a leader in process control advancements for many industries. Through the process controls, we have gained the experience in material movement.

— ***Aluminum.*** We have supplied systems to all of the major aluminum companies, world-wide. Our controls maximize the operation of all types of melters, holders and metal treatment equipment. We have more experience in the control of regenerative burners than anyone else in the world.

— ***Boiler/Processes heaters.*** We have created systems for applications that range from commercial package boilers to power plant boilers, from greenhouses to petro-chem plants.

— ***Ceramics.*** For over 25 years we have been supplying computer control systems to optimize the production and efficiency of tunnel, shuttle and periodic kilns as well as calciners. We have done many successful multi kiln, PC based management and aquisition systems.

— ***Forging.*** Special systems to deal with localizing heat release in furnaces where work is moving back and forth between the furnace and the forge. Systems for the special heating requirements when forging exotic metals like titanium.

— ***Glass.*** We have supplied heat recovery and oxy/fuel control systems for melters as well as systems for hearths and lehrs.

— ***Heat Treat.*** Systems that increase uniformity, reduce emissions, increase throughput and save fuel all at the same time.

— ***Steel.*** We have supplied control and management systems for reheats, single and multi stack cover annealers, strip anneal and galvanizing anneal lines, ladle dryout and preheaters, and more.

Relay based combustion safety and process control.

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