

# NITRIDING FLOW CONTROL PANEL

ADVANCED NITROGEN AMMONIA CONTROL SYSTEM



The Nitriding Flow Control Panel is a fully integrated nitrogen ammonia mixing system designed specifically for nitriding furnace applications. The Nitriding panel utilizes the latest in precision differential pressure flow measurement and touch screen controller design to help automate and document performance in both a single or dual stage process. The system has been successfully integrated with %oxygen, %hydrogen, and the newly patent-pending %DA sensor from Atmosphere Engineering. The complete system comes pre-piped, wired, and tested to perform to the exact furnace requirements.

## FEATURES & BENIFITS

- Electronic Flow Measurement and Control
- Monitor Exhaust Pressure Constantly
- Monitor %DA Constantly with optional %DA sensor)
- Safety Integrated contacts for %Oxygen, %Hydrogen, and %DA sensors (Sensors optional)
- Paperless Chart Recorder stores all flow rate information including furnace process information.
- Perfect for Single and Dual Stage Nitriding Process Control
- Exceeds NFPA 86 safety guidelines when coupled with the optional %Oxygen and %Hydrogen sensors
- Integrated Ethernet Communications (Modbus RTU)

## SPECIFICATIONS & OPTIONS

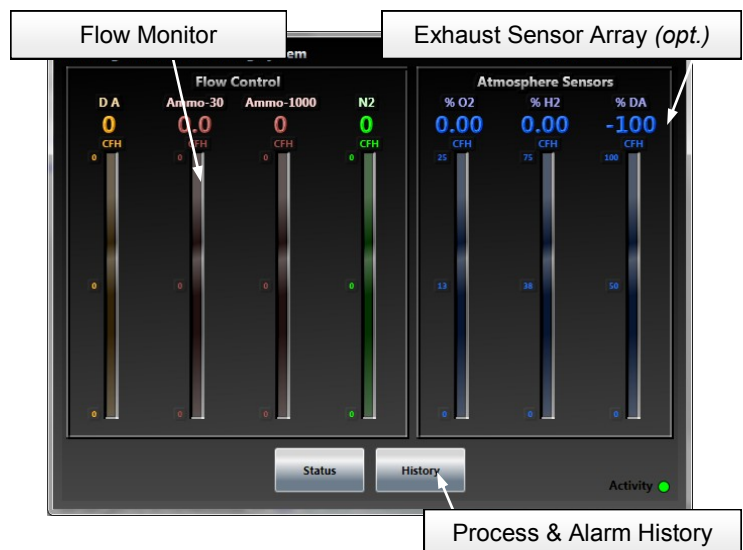
Power ..... 110VAC @ 60Hz  
Capacity..... 100 - 8000 CFH  
Inlet Pressure ..... 5 - 50 PSIG  
Turndown..... 5:1  
Repeatability..... 2%

### System Includes

- Full-Color Touch Screen Interface
- Integrated Paperless Chart Recorder
- Ethernet Communications (Modbus RTU)
- Electronic Process Flow Meters
- Integrated Nitrogen Purge

### AVAILABLE OPTIONS

- Exhaust Sensor Kit (%Oxygen, %Hydrogen, and %DA Sensors)
- Recipe Control
- Temperature Control



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“INTEGRATED FLOW CONTROL SOLUTIONS”

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