

NITROGEN + HYDROGEN CONTROL PANEL

ADVANCED NITROGEN HYDROGEN CONTROL SYSTEM



The N2/H2 control system is a fully automated gas mixing system for heat treating furnace atmosphere production. The panel utilizes the latest in precision differential pressure flow measurement and touch screen controller design. The system is the first with built-in flow rate calculation to automatically set the nitrogen and Hydrogen flow rates based on a desired % H2 concentration. The N2/H2 panel comes completely pre-piped, wired, and tested to perform to the exact furnace requirements.

FEATURES & BENIFITS

- Automatic Flow Setpoint Calculation
Designed to automatically calculate and control the precise volume of gasses to maintain the desired %Hydrogen in the furnace atmosphere.
- Automatic Atmosphere Recover
The N2/H2 panel can provide additional atmosphere automatically when introducing a new load into the furnace.
- Integrated Dew Point Control (optional)
The panel will automatically modify the mixture to maintain a desired dew point within the furnace atmosphere while only using as much gas as is required.
- Full-Color Touch Screen Interface with Integrated Paperless Chart Recorder to track flow rates, furnace temperature, dew point, and other variables as necessary.
- Integrated Ethernet Communications (Modbus RTU)
- Designed for use with single and multi-zone furnaces
- Integrated Nitrogen Purge to meet NFPA 86 Guidelines

SPECIFICATIONS & OPTIONS

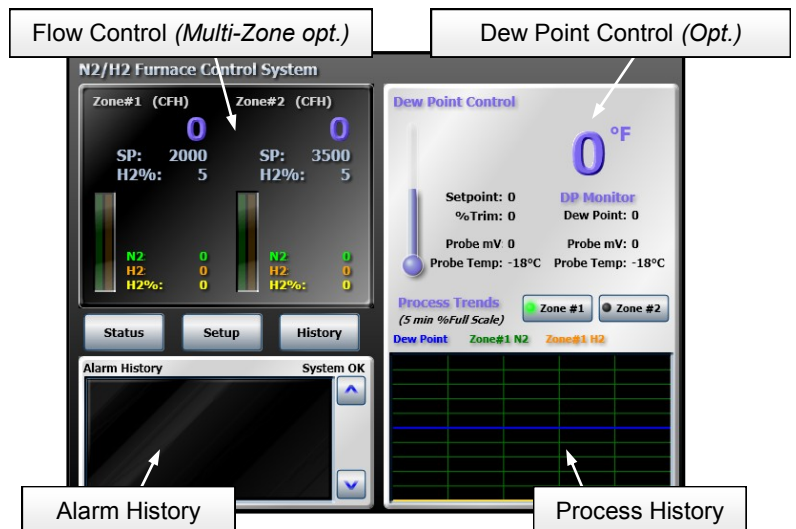
Power 110VAC @ 60Hz
Capacity 250 - 15,000 CFH
Inlet Pressure 5 - 40 PSIG
Turndown..... 5:1
Repeatability..... 2%

System Includes

- Automatic Setpoint Calculation
- Full-Color Touch Screen Interface
- Integrated Paperless Chart Recorder
- Ethernet Communications (Modbus RTU)
- Electronic Process Flow Meters
- Precision Flow Control Valves
- Integrated Nitrogen Purge

AVAILABLE OPTIONS

- Dew Point Control
- Dew Point Sensor System
- Temperature Control
- Multi-Zone Furnace



Document: BL-2873-R0

“INTEGRATED FLOW CONTROL SOLUTIONS”

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