

SMARTMETH™

ADVANCED NITROGEN METHANOL CONTROL SYSTEM



The SmartMeth™ control system is a fully automated nitrogen methanol mixing system for heat treating furnace atmosphere production. The SmartMeth™ 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 methanol flow rates based on a desired %CO furnace concentration. The SmartMeth™ comes completely pre-piped, wired, and tested to perform to the exact furnace requirements.

FEATURES & BENIFITS

- **Automatic Flow Setpoint Calculation:**
SmartMeth automatically calculates the required nitrogen and methanol flow rates to maintain a desired %CO at the required volume.
- **Automatic Atmosphere Recovery:**
SmartMeth can provide additional synthetic gas flow on demand when introducing a new load into the furnace.
- **Paperless Chart Recorder:**
An integrated full color paperless chart recorder stores furnace temperature, %carbon, and synthetic gas flow furnace details.
- **Completely Assembled and Tested:**
SmartMeth is a complete mixing and control system designed and tested to meet NFPA 86 safety guidelines.

SPECIFICATIONS & OPTIONS

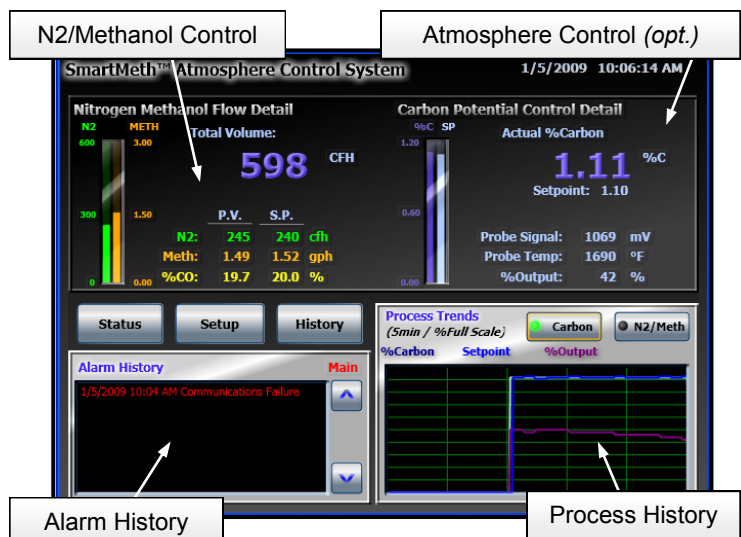
Power 110VAC @ 60Hz
 Capacity.....200 - 5000 CFH
 Inlet Pressure 5 - 50 PSIG
 Turndown..... 5:1
 Repeatability.....2%

System Includes

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

AVAILABLE OPTIONS

- Carbon Control (with Recipes)
- Temperature Control (with Recipes)
- Atmosphere Sensors



Document: BL-2874-R0

“INTEGRATED FLOW CONTROL SOLUTIONS”

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