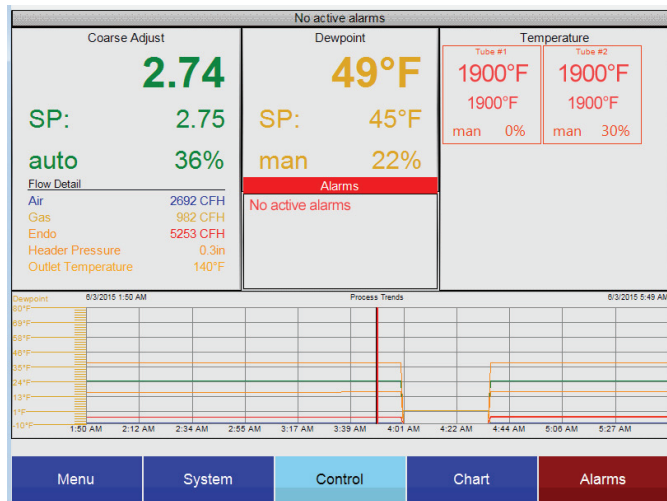# atmosphere

AutoGen

AutoGen represents the next advancement in generator controls utilizing sophisticated flow loop algorithms to perform demand-based control on endothermic gas generators. AutoGen is designed to fully automate generator control including temperature, dew point, air/gas flow and automatic turndown.

AutoGen is designed for simple and cost-effective replacement of existing pump and carburetor-based systems.

When your generator has varying demands for endo gas, avoid burning of excess gas and let AutoGen produce only necessary gas, resulting in **immediate cost savings.**

Generator Control
- Temperature Control Loop(s)
- Dew Point Control (Multiple Technologies)
- Electronic Flow Readings and Control
  - Inlet Gas
  - Inlet Air
  - Outlet Endothermic Gas
- Endothermic Gas Temperature
- Configurator Remote Control/Management Software
- 12.1" Color Touch Screen (15" Optional)
- Video Recording
- Current & Historical Alarm Information
- Configuration Utilities
  - Alarm Definitions
  - Maintenance Scheduling
- Generator Pressure
- Quick Visual of Generator Status
- Ethernet Connectivity
- Includes Air Blower, VFD and Air Filter Assembly
- Temperature Hi-Limit
- Multi-Language Support
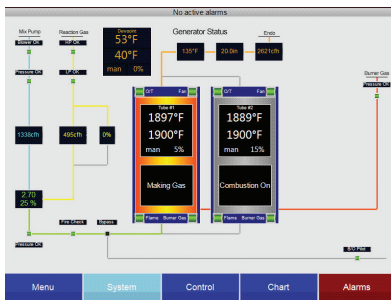- Optional Generator Burnout Blower

INNOVATIVE SOLUTIONS WORLDWIDE

Specifications

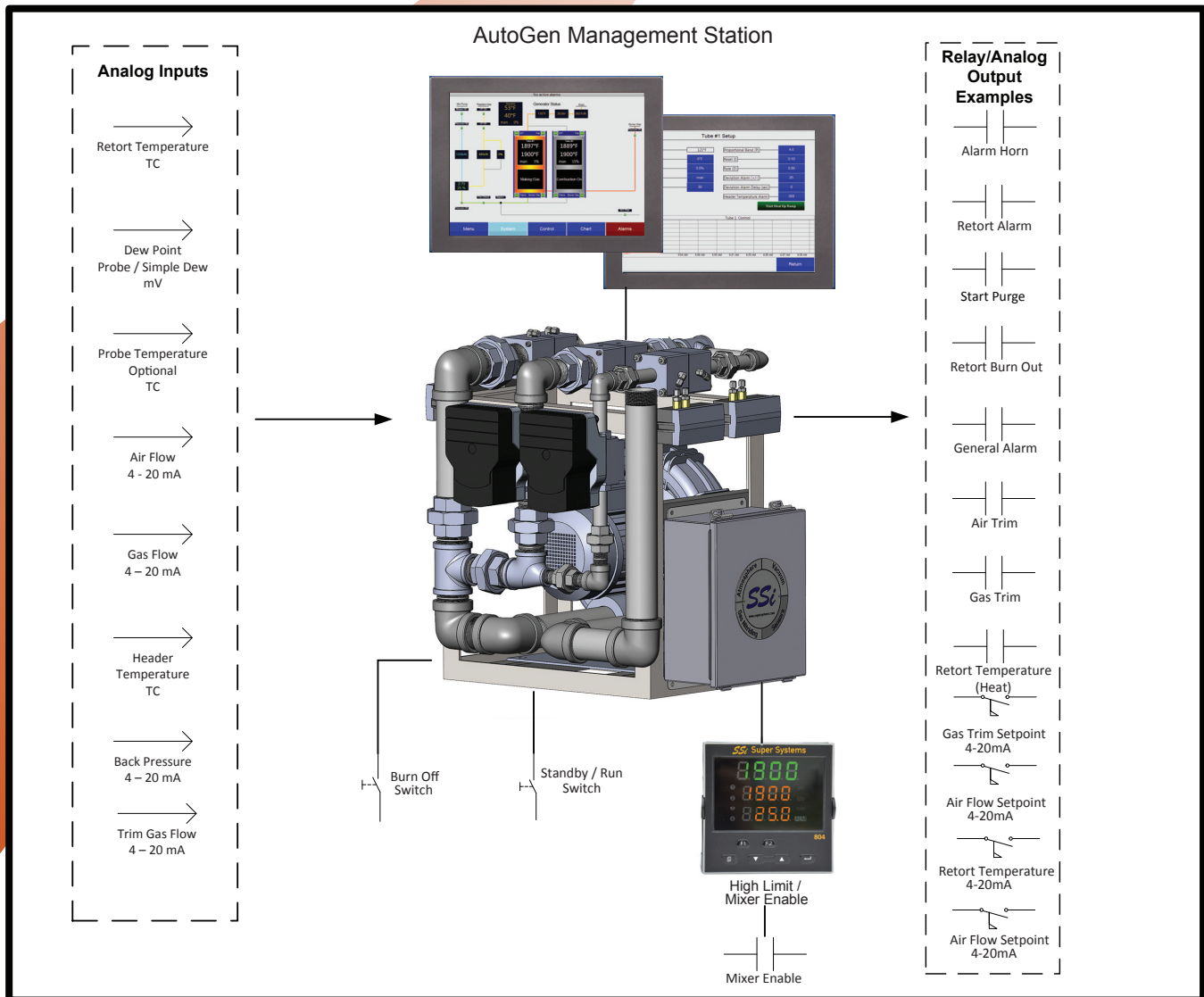|	
Control Power	110/220 VAC
Communications	Modbus TCP, Modbus RS485
Gas Type	Natural Gas, Propane
Maximum Gas Pressure (Pre-Mix)	5 psig
Minimum Gas Pressure (Pre-Mix)	0.5 psig
Turndown Ratio	7:1
Max. Operating Temperature	122 °F / 50 °C
Endothermic Gas Capacity	700 - 13,500 scfh / 19.82 - 382.32 m^3/h

Super Systems
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SSi

Easy Configuration and Control

AutoGen is easily configured for single or multi-tube generators. AutoGen provides an easy-to-use interface with visibility of all configuration parameters, process variables, current/historical charts, alarms, and inlet/outlet gas flows. The system is equipped with precision control of dew point and gas/air flow.

AutoGen Management Station

Analog Inputs

- Retort Temperature TC
- Dew Point Probe / Simple Dew mV
- Probe Temperature Optional TC
- Air Flow 4 - 20 mA
- Gas Flow 4 – 20 mA
- Header Temperature TC
- Back Pressure 4 – 20 mA
- Trim Gas Flow 4 – 20 mA

Burn Off Switch

Standby / Run Switch

High Limit / Mixer Enable

Mixer Enable

Relay/Analog Output Examples

- Alarm Horn
- Retort Alarm
- Start Purge
- Retort Burn Out
- General Alarm
- Air Trim
- Gas Trim
- Retort Temperature (Heat)
- Gas Trim Setpoint 4-20mA
- Air Flow Setpoint 4-20mA
- Retort Temperature 4-20mA
- Air Flow Setpoint 4-20mA

Maintenance Settings

- User Defined Maintenance Activities
- Reduce Downtime
- Alerts On Screens, Tracked Historically In Database
- Quick View for % Complete or Time Remaining for Maintenance Items

Configurator

- Historical Tracking of Backups with Date/Time Stamps
- Remote Desktop Control for Configuration

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