



Super Systems
incorporated

www.supersystems.com

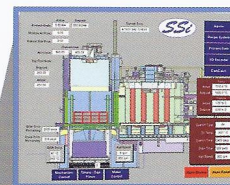


ISO 9001: 2000
ISO / IEC 17025



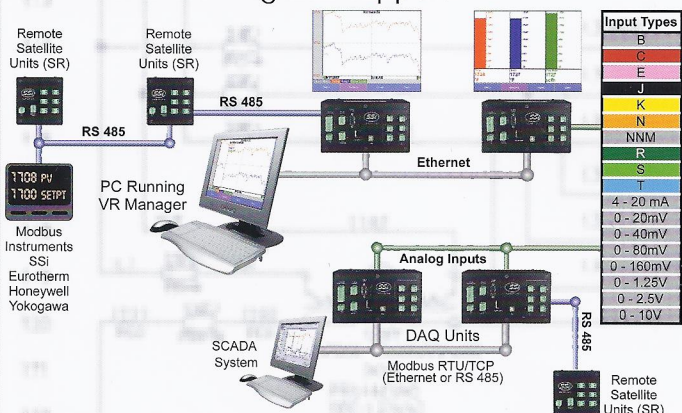
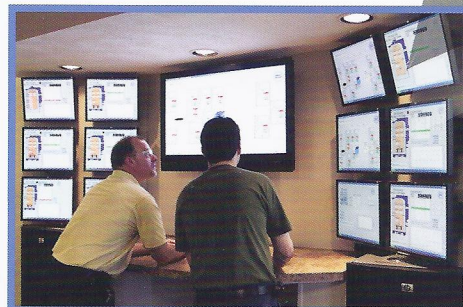
SuperDATA

SuperDATA is a plant-wide, open architecture HMI/SCADA package designed for the Heat Treat Market. SuperDATA contains a communications module, data logging module, custom display module, and trend charting module.

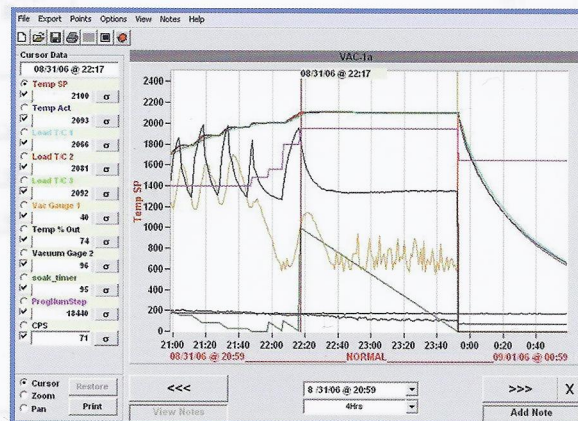


Features:

- Process Supervision and Plant Management
- Quick Easy Access to PLCs and Instrumentation
- Communications Engine
- Alarm Recorder
- Event Manager
- Trending Chart and Display
- Real-Time Visual Display
- Multiple Workstations
- Communication Watchdog Module
- Remote Viewing and Support



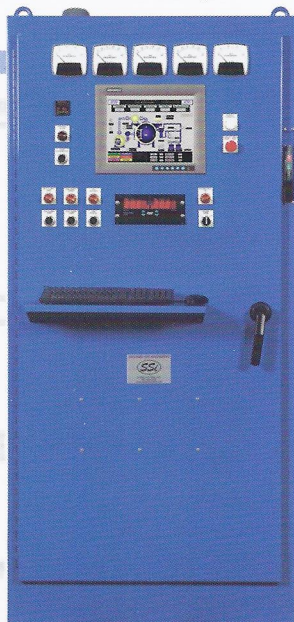
DAQ units used for creating digital data from analog units. The compact footprint and modular design make it a simple cost effective solution for continuous data logging back to a SCADA system.



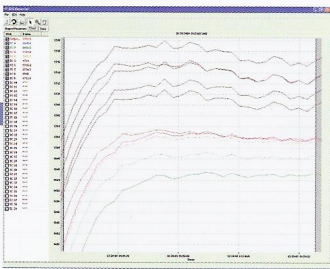
Engineered Systems

Engineered Systems

- Systems integrator serving the thermal process market
- Systems are designed, engineered and built for **atmosphere, gas nitriding, vacuum, annealing and custom processes**
- Endothermic and exothermic generators
- Single and multi-loop control systems
- Turnkey packages featuring furnace motion, PID control and SCADA systems
- Visit our web site to view additional integrated systems



Multi-Channel Data Logger



Portable Data Logger

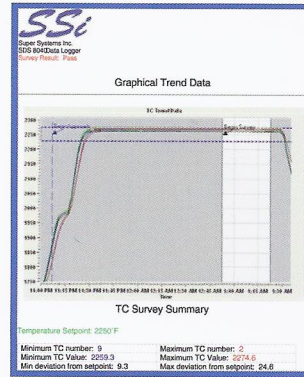
The portable and rugged data logger is easy to use and addresses the many industrial applications where logging, trending, and reporting are required

The product is available in either the 20 or 40 channel version with user-defined for each channel.

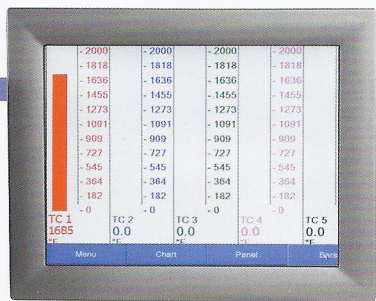
Specifications

- Built for industrial environments
- Designed specifically for temperature uniformity surveys
- Meets AMS 2750 D recording and reporting requirements
- Approximately 12 hours of battery life
- Web Browser enabled for real-time view
- ETHERNET and RS232 serial communications
- 16-Bit A/D converter
- 128 mBytes of on-board data
- Customized reporting tools

SDS8020 / SDS8040 provides the hardware and software needed to meet industry standards for **temperature uniformity surveys** by logging and generating reports that address the **AMS 2750 D** specifications.

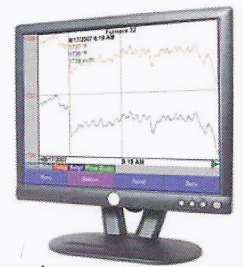
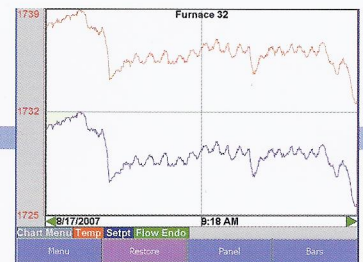


Video Recorder

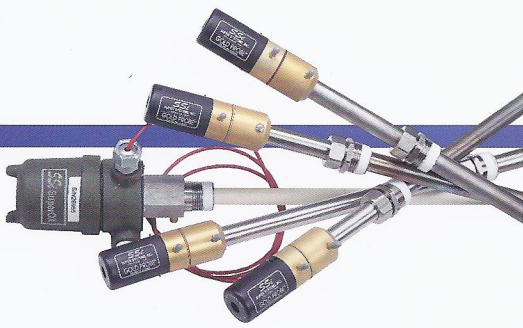


Features:

- Universal Analog inputs – fully isolated, up to 48 inputs available
- Handwritten notes capability
- Din rail mountable base and slim operator interface
- Redundant data storage
- Remote connectivity
- VR manager for remote data access
- Satellite analog base units allow flexible integration
- Extended I/O module available with 8 outputs and 4 inputs
- AMS 2750 D Compliant
- Modbus master communications for slave instrument data logging

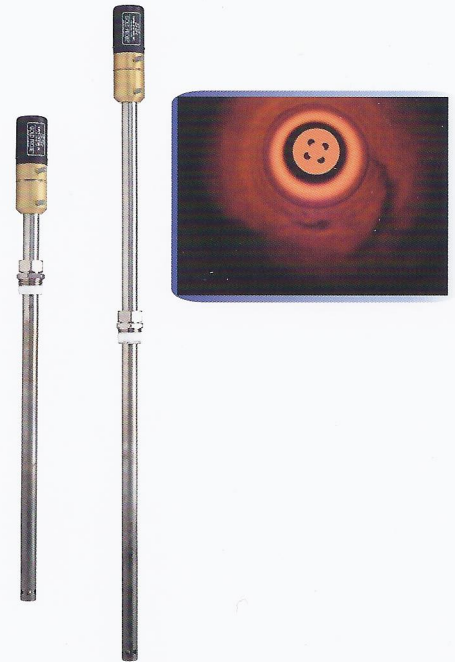


Gold Probes



GOLD PROBE™

- Patented design delivers accuracy and repeatability
- Engineered to be re-built for 50% of original cost
- Rebuilds include 12-month warranty from installation
- State-of-the-art probe design features high velocity burn-out
- Carbon Potential, Dew Point, Oxygen
- Typical thermocouples: "S", "R", & "K"
- Cermet coating and ceramic sheath optional
- Installed directly in the hot-zone



BAZOOKA

- Specifically designed to control endothermic generators
- Used on rotary and muffle furnaces
- Installed in combustion chamber
- Integral sample well
- Operates at 1500 - 1600°F. (816 - 871 °C.) for optimum life



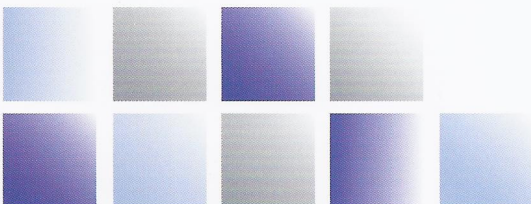
PROBE CONDITIONING

- Single or multi-zone burnoff and reference air



HP15 / HP2000 Self-Heated Gold Probes

- Engineered for rotary, shaker, pit furnaces and modular endothermic generator applications
- Low-temperature protective atmosphere applications
- External sample applications when in-situ probe is difficult to install



Controllers



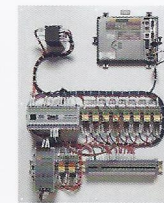
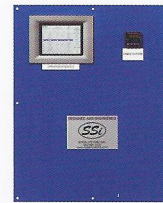
Single-Loop Controllers

- Designed specifically for atmosphere and temperature control
- Temperature, %Carbon, Dew Point, O₂, and Millivolts
- Internal timers for burn-out / probe maintenance
- On-board probe diagnostics
- Events: Eight input & ten output
- RS485, Modbus communication protocol
- Built-in timers



9000 Series Instrumentation

- Video recording / trend display – real-time and historical, data logging with flash card
- PID Control output, DIN rail mounting
- Touch-screen operator interface
- ETHERNET (Modbus TCP/IP), RS485
- 300 Heat Treat recipes
- Web browser compliant
- Three analog inputs, two 4-20mA outputs
- Four digital inputs, eight relay outputs with expansion
- Multi-point auto-tuning
- Display and datalog load thermocouples
- Sophisticated recipes
- Guarantee soak on control and load TC's



Retrofit Plate

MODEL	TEMPERATURE	VACUUM	ATMOSPHERE	NITRIDING	TEMPERATURE AND ATMOSPHERE
9010 – Set Point programmer used for recipe management with discrete control instruments slaved	✓	✓	✓	✓	✓
9120 – Single or multi-loop controller used for atmosphere (%O ₂ , Dew Point (°F, °C) and temperature control	✓		✓		✓
9130 – Single loop recipe programmable controller	✓		✓		
9205 – Multi-loop recipe programmer for atmosphere furnace control	✓		✓		✓
9210 – Multi-loop recipe programmer for complete nitriding control	✓			✓	
9220 – Multi-loop recipe programmer for vacuum furnace control	✓	✓			

PC Configurator - Remote Controller Management

- When using PC and Configurator Software touch-screen operator interface becomes optional
- Configure outputs, alarms, PID tuning and parameters
- Create, modify, start and stop recipes
- Backup and restore configuration



Analyzers



PGA3510 / MGA6010 Portable IR Analyzers

- 3-Gas NDIR (CO, CO₂, CH₄)
- O₂ cell, optional H₂ cell
- Software for data archiving
- Carbon calculation using 3-gases and temperature
- Portable, battery powered (rechargeable)
- Outstanding diagnostic tool for atmospheres
- Ethernet communications
- Web browser enabled
- Multi-language
- User-defined equipment list
- Sessions for equipment data logging



DP2000 / DPC2530 Dew Point Analyzers

- Range: 0 to 80 °F. (-18 to 27 °C.)
- Digital display - degrees °F. °C.
- DP2000
 - Portable, battery powered (rechargeable)
 - Operator friendly
- DPC2530
 - Permanent, AC powered
 - Control and alarm outputs



DPC3500/DPL4000 Low Range Dew Point Analyzer

- Range: -148 to 20 °F. (-100 to -7 °C.)
- Designed for Nitrogen, Argon, or Hydrogen gases
- Digital display degrees °F. or °C.
- DPL 4000 - portable battery powered
- DPC 3500 - continuous

