

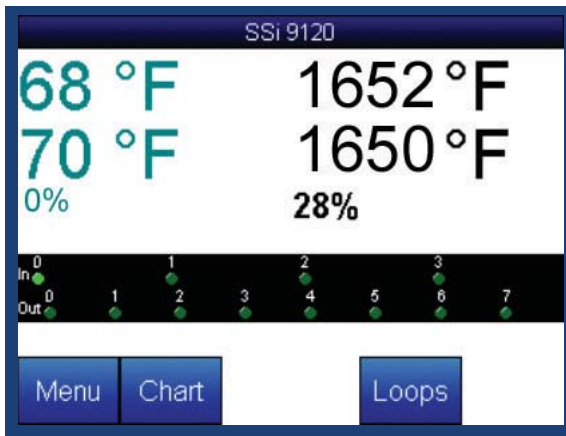
Series 9120

Single or dual loop set point controller used in carbon, oxygen, millivolt, nitriding and dual loop control applications

Single/Dual loop controller with data logging



Available screen sizes:
3.5", 5.7", 12.1"



The versatile instrument is supplied with Ethernet and supports Modbus TCP host communications and can support up to 25 slave serial instruments via Modbus RS485. The 9120 comes with a web server for thin client control

- 3.5, 5.7, or 12.1" touch screen interface
- Digital data logging to flash card - built in paperless recording
- DIN rail mount
- 8 relay contacts
- 24VDC (Power Supply Included)
- Analog Outputs - PV Retransmission
- Multiple PIDs
- Overshoot Suppression Logic
- Auto Tuning
- PID Switchpoints
- Two (2) RS485, RS232, ETHERNET
- 4-20mA Current Control Output
- Two (2) Discrete Inputs
- 24 VDC Power Supply
- Note that the 9120 does not run recipes

9120 Applications

Oxygen Probe mV Control

Single-loop control used for applications where mV reading from oxygen probe and temperature are used to control outputs

Control loops:

- mV
- Temperature

Nitriding

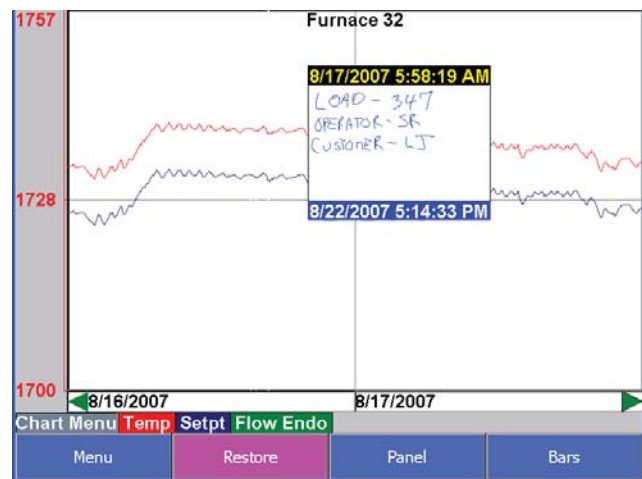
Used for applications where H₂ reading is used to calculate dissociated ammonia (DA).

Outputs:

- DA 0 - 100%
- H₂ 0 - 100%

Dual Loop

Multi-loop control used for applications where universal input reading from analog input 1 and analog input 2 are used for setpoint control for both loops.



Built in Chart Recorder with Notes

INNOVATIVE SOLUTIONS WORLDWIDE

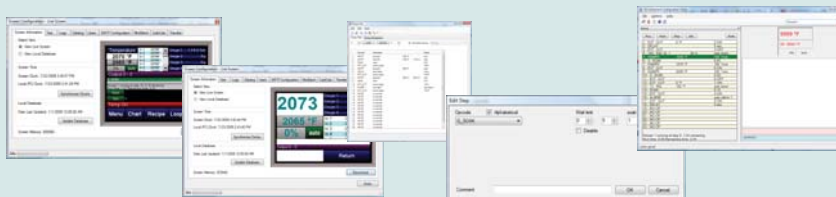
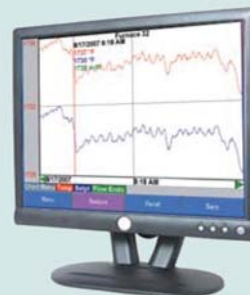


Super Systems
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Configuration Software and Data Management

Software Included

- TS Manager - Data management for touch screen flashcard. Remote data viewer, historical data backup, SuperDATA integration.
- Configurator - Remote setup and configuration of controller.



Non-volatile flash memory data storage

Single/Dual-Loop Controllers



P/N 13563
P/N 13564

Model 1500

- Atmosphere control system
- Integral reference air and burnout air system
- Designed for either endothermic generator or furnace
- Electrical drawings for easy customer installation
- Typically in stock - ready for delivery

Single-Loop Carbon Controller

- Gas and Air Relay Output
- 4-20mA PV Re-transmit
- One (1) Discrete Output (Probe Burnoff or Alarm)

Single-Loop Dewpoint Controller

- One (1) Control Relay Output
- 4-20mA PV Re-transmit
- Two (2) Discrete Outputs (Probe burn off and recovery)

Single-Loop Oxygen Controller

- Two (2) 4-20mA PV Re-transmit
- Three (3) Discrete Outputs

Dual Loop, Carbon and Temperature

- Gas and Air Control (Relay or Current)
- Temperature Control (Relay or Current)
- 4-20 mA PV retransmission
- Alarm Contacts
- Probe Burnoff

Dual Loop Temperature

- 2 control Relay Outputs or 4-20mA Control output
- 4-20mA PV retransmission
- Alarm Contacts

Single Loop Nitriding

- 4-20mA PV retransmission (DA)
- 4-20 mA PV retransmission (H₂)
- Alarm Contacts



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