

Series 9120

Single or dual loop controller that can be used in carbon, oxygen, temperature, millivolt, nitriding and dual loop control applications



Single/Dual loop controller with data logging

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)
- 2 Analog Outputs - PV Retransmission or Control
- Multiple PIDs
- Overshoot Suppression Logic
- Auto Tuning
- PID Switchpoints
- Two (2) RS485, RS232, Ethernet
- 4-20mA Current Control Output
- Two (2) Discreet Inputs
- 24 VDC Power Supply (included)

9120 Applications

Oxygen Probe/mV Control

Single-loop control used for applications where mV reading from oxygen probe and temperature process variables are controlled

Control loops:

- mV - carbon or oxygen
- Temperature

Nitriding

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

Outputs:

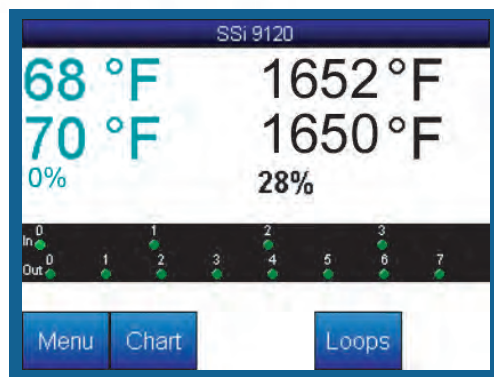
- DA 0 - 100%
- H₂ 0 - 100%

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.

Carbon and Temperature Control

Multi-loop application for controlling carbon and temperature.

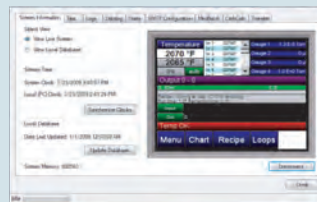


Built in Chart Recorder with Notes

Configuration Software and Data Management

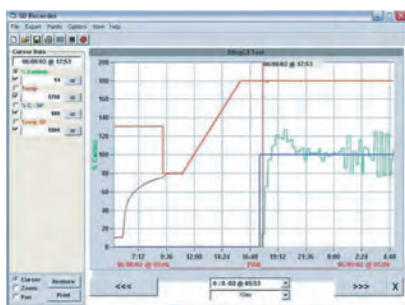
Software Included

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



SUPER SYSTEMS INC.
(800) 666-4330
www.supersystems.com

1 - 24VDC (COM)	12 - EVENT RELAY 4	22 - SLAVE 2 RS485 (+)
2 - 24VDC (+)	13 - EVENT RELAY 5	23 - SLAVE 2 RS485 (-)
3 - RS485 RT (-)	14 - EVENT RELAY 6	24 -
4 - RS485 RT (+)	15 - ALARM RELAY NC	25 -
5 - SLAVE 1 RS485 (-)	16 - ALARM RELAY NO	26 -
6 - SLAVE 1 RS485 (+)	17 - EVENT IN 0	27 -
7 - RELAY COMMON	18 - EVENT IN 1	28 -
8 - EVENT RELAY 0	19 - EVENT IN 2	29 -
9 - EVENT RELAY 1	20 - EVENT IN 3	30 -
10 - EVENT RELAY 2	21 - EVENT IN COM	31 -
11 - EVENT RELAY 3		32 -



Non-volatile
flash memory
data storage



Actual trend chart print-out showing temperature and atmosphere set points, process variables and hand written or typed notes.

Data retrieved through flash card or data management software using Ethernet.

Single/Dual-Loop Controllers

Single-Loop Carbon Controller

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

Single-Loop Dewpoint Controller

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

Single-Loop Oxygen Controller

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



Super Systems
incorporated

7205 Edington Drive
Cincinnati, OH 45249
513.772.0060 phone
513.772.9466 fax

www.supersystems.com 800.666.4330