# **Matrix Series Controller**

Super Systems Inc.'s **Matrix Series Controller** provides a flexible platform for meeting a large variety of control applications. The expandable I/O for analog and digital cards allows for right-sizing an application. The instrument has all the built-in features for sophisticated thermal processing applications, includes a customizable HMI allowing the right interface to be created for the application, and includes built-in data logging.



The exceptional scalability and rich application features makes this controller ideal for multi-zone, multi-control applications.

#### Multiple Screen Sizes

• Custom Designed Interface – compact HMI

#### Expandable I/O

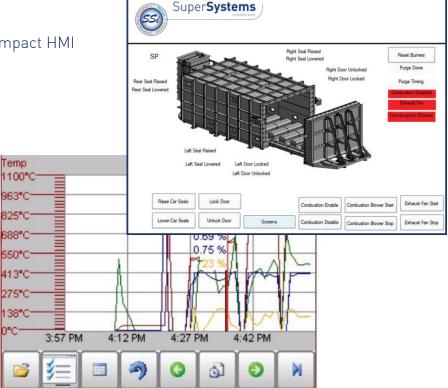
- Analog Inputs (4 per card)
- Analog Outputs (4 per card)
- Digital Inputs (4 per card)
- Digital Outputs (8 per card)

#### **Robust Communication Supported**

- Ethernet
- RS 485 Master/Slave
- DF1 Allen Bradley
- Vacuum Gauge Comms
  - Televac
  - Infocon
  - Leybold

#### Multiple Recipe Programmers

Segment or Step





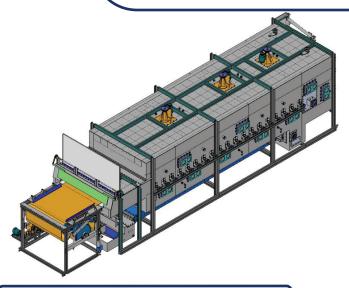


# **Applications**

Continuous Furnaces Generator Control

- Multi-Retort (up to 6) Multi-Zone Batch Applications





## **Features**

Custom Overview Screen Using cHMI Math Block for extending functionality

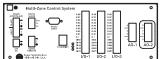
Recipe - Segment Profile

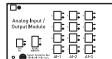
- Zone, Event, Time

Data logging to screen

- Process Data
- Batch

	Max
	pandable I/O
Max Analog Inputs on Backplane:	24
Max Aux Analog Inputs:	40
Max Analog Outputs on Backplane	
Max Digital Outputs on Backplane:	64
Max Digital Inputs on Backplane:	32
Max PID Loops:	16
Max Calculated Variables:	8
Max Flow Meters:	8
Max Programmers:	8
Max Vacuum Gauges:	8
Max Probes:	8





Mounting:	DIN rail	
Display:	Remote Configurable Color Touch Screen	
Supply Power:	24 Volts DC	
Input Types:	TC, mV, mA	
Accuracy:	< 1%	
Control Type:	Proportional (PID) - On/Off or Analog Out	
Control Algorithm:	Temperature, Carbon, Dew Point, Pressure, Gas Flow, User-Defined	
Configuration:	Touch Screen or PC Configurator	
Communications:	Ethernet (Modbus TCP), Modbus RTU (RS485), Allen Bradley DF1, Televac MM200	

**TS Manager** - Data management for touch screen flashcard. Remote data viewer, historical data backup, SuperDATA integration.

Software Configuration/Remote Management



### Super Systems

7205 Edington Drive Cincinnati, OH 45249 513.772.0060 **phone** 513.772.9466 **fax** 

