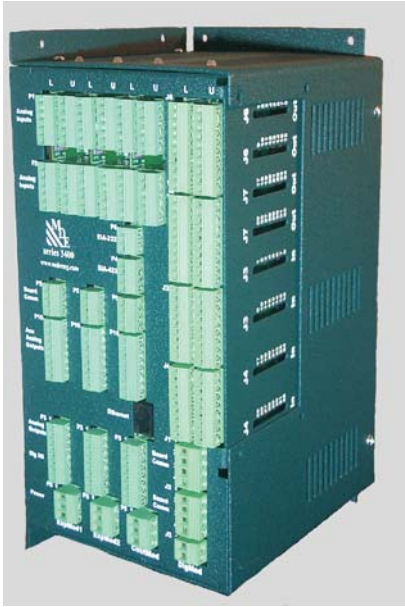


3402 Autoclave Controller



Overview

The 3402 Autoclave Controller is pre-configured series 3400 controller with all the features needed for complete autoclave control and data monitoring. Please consult the series 3400 controller data sheet for more information on the 3400 controller hardware specs and capabilities.

The 3402 Autoclave Controller (AC) is designed to control an autoclave's temperature and pressure. Up to 24 control loops can be used for individual pressure control for each individual part in autoclave.

Each part in the autoclave may have its own alarm that can be activated in the event of a temperature or pressure exceeding the alarm limits.

The Autoclave Controller can be programmed to generate temperature and pressure setpoints as a function of time. The temperature and/or pressure used for controlling the Autoclave can be dynamically calculated from the Average of all some or all Part Temperatures/pressures, Highest Part Temperature/Pressure, or Lowest Part Temperature./Pressure.

Using the MDE SuperView Windows software package, the 3400 Autoclave controller can be networked via Ethernet/TCP/IP to a PC. The SuperView software provides data logging of all part temperatures and pressures, building of Temperature and Pressure recipes and complete configuration of the Autoclave controller.

MDE's SuperView software package makes it easy to configure, monitor, log data, create recipes, customize and network multiple 3402 units.

SuperView provides system monitoring and system supervision from a local PC or via the Internet.

Since all control is performed in the 3402 Autoclave Controller If the PC goes down, your process stays under control.

3402:

Autoclave Controller from the 3400 series

Features and Benefits

Built-in Autoclave features:

- Temperature and pressure control loops.
- Individual alarms for all part temperatures and pressures.
- Guaranteed Soak based on any part temperature or pressure.
- Programmable part temperature Averaging or High/Low Picking for control loop feedback signal.

Combine control, data acquisition, and alarming in single unit:

- Eliminate extra equipment and increase process reliability.
- Name each part temperature or pressure input for display or logging.
- Document all your control results graphically and in Excel compatible files.
- Single vendor makes product support easy.

Modular system components:

- Use only the pressure or temperature inputs needed for the autoclave.
- Add more control or monitoring when needed.

Built-in high speed, modern, standard Ethernet with TCP/IP:

- Network multiple units to get nearly unlimited I/O. capability for part temperature and pressures inputs and/or alarms outputs.
- Get the data much faster and more reliably than with serial links.
- Isolated Ethernet eliminates ground loops and problems.
- Connect into your corporate network for maximum efficiency.

Universal High Resolution Isolated Analog Inputs (16 bit):

- Thermocouple and Voltage/Current for temperature and pressure inputs.
- Isolated inputs provide stable and highly accurate readings.

64 Digital I/O points @ 24Vdc:

- 32 Digital Inputs can monitor temperature or pressure alarm transducers
- 32 Digital Outputs for individual part alarm outputs or enable/disable individual part vacuum stations.

High Resolution Isolated Analog Outputs (16 bit):

- Retransmit parameters with high accuracy.
- Control critical processes with high precision.