

masibus®

A Sonepar Company



LC5296-AT LC5248E-AT LC5296L-AT LC5248L-AT LC5296V-AT

Auto-tune PID Controller

Masibus LC5296-AT / LC5248E-AT / LC5296L-AT / LC5248L-AT / LC5296V-AT PID Controller series is designed to offer outstanding control performance in a compact package providing a comprehensive solution for a wide variety of applications: such as plastic manufacturing, packaging machinery and food processing applications requiring precise heat/cool control and processes protection alarming.

LC5296-AT / LC5248E-AT / LC5296V-AT PID Controller offer a cost-effective alternative to implement loops in a PLC while at the same time improving loop performance. It accepts one universal process input suitable for thermocouple, RTD or linear mA/Volt. All inputs and outputs can be read directly over the modbus communication interface by the supervisory host system as well as process value can be retransmitted to remote PLC/DCS. This expands capabilities of available PLC/DCS and host supervisory system I/O, simplifies machine troubleshooting and remote diagnostics.

LC5296-AT / LC5248E-AT / LC5296L-AT / LC5248L-AT / LC5296V-AT PID Controller With a fast responsive PID auto-tuning algorithm it is equipped with Heat/Cool relay or SSR output for control function. Auto-tuning adjusts the PID parameters for desired set-point according to the current process dynamics so it has no harmful effect on the current operation. It has flexibility to switch control to On-Off or manual mode for non-critical applications.

LC5296-AT / LC5248E-AT / LC5296V-AT PID Controller has outputs available providing a combination of relay (alarm output) and relay or SSR (control output) or Motorized valve Forward/Reverse without feedback (control output) based on application requirement. Whereas LC5296L-AT / LC5248L-AT PID controller has 3 outputs providing combination of 2 Relay (alarm output) or SSR (control output)

Compact size and simple programming makes the installation and operation of controller easier and user-friendly.

Features

- Auto-tune PID
- Universal input (TC, RTD, Volts, mA)
- 15 Alarm configurations
- RS485 Modbus communication (optional in LC5296-AT / LC5248E-AT / LC5296V-AT model)
- Retransmission output (optional in LC5296-AT model)
- Relay / SSR control output option
- Password protected configurations
- Auto/manual selection with bump less transfer
- Fail-safe design protecting the process in case of system malfunctioning
- Display brightness control
- Transmitter power supply in LC5296-AT/LC5296L-AT/LC5248E-AT /LC5296V-AT model
- Function Key : selectable for RUN/STOP or auto/manual or none.(LC5296L-AT/LC5248L-AT)

Applications

- Injection molding machines
- Plastic extrusion process
- Packaging machines
- Food processing applications

