Sentry

Features

- Vacuum florescent display, 32 characters
- Operator control panel
- Monitors DC and AC line voltages
- Monitors four temperature sensors
- Provides VME power and reset signals and monitors SYSFAIL
- Automatic shutdown with override and battle short
- Thermal fan speed control for optimal cooling

Product Information

The Sentry III Diagnostic Monitor is a microprocessor-based instrument for monitoring and controlling the power supplies, fans, etc. in an Elma chassis. It provides the following functionality:

- Monitor and display current values for AC and DC voltages, inlet and outlet air temperatures.
- Compares voltages and temperatures against preset limits and raise an alarm if these limits are exceeded. If safe operating limits are exceeded, system power is shut down.
- Warning and fatal failure limits are user programable to meet system requirements.
- Monitors up to four fans for rotation.
- Provides closed-loop control of the cooling fans. A desired outlet air temperature may be set and the Sentry will run the fans just fast enough to maintain that temperature, providing adequate cooling with a minimum of accoustic noise.
- Operator control: Through a keypad, the operator may interrogate and control various aspects of the Sentry's operation.
- Remote control: An RS-232 serial port duplicates much of the functionality of the Sentry's front panel. This allows a remote processor or operator to monitor and control Sentry functions. The Sentry's front panel display may be controlled by the remote host and selected key presses may be redirected to the remote host.
- Logs any limit violations along with the time and date that the violation occurred.
- VME Bus control: The Sentry controls the VME control lines ACFAIL and SYSRESET in response to power up and power down commands. The operator may also execute a SYSRESET from the front panel keypad. Sysfail is monitored.
- Battleshort feature allows the operator to override all failure shutdown modes during mission critical applications

Application Examples