HeatManager – Control System

Made in Sweden
electroheat.com

Metal | Plastics | Composites | Rubber | Cables | Drying | Hardening | Annealing | Tempering | Coating | Air | Vacuum | Nitrogen | and more
Control System

Temperature sensor: Thermocouple for controlling of temperature, the sensor is connected to a Siemens PLC with a special developed PLC program for industrial ovens.

HMI: Siemens 12 - 19” Comfort Panel is mounted one the oven/furnace.

Our standard program for control of heating and cooling contains;

- Manual temperature setting (°C)
- View of actual temperature (°C)
- Recipe management; ramp rate, hold time etc.
- Operating mode: Automatic / Manual
- Alarm List
- Logbooks; containing list of trippings, device faults, events
- Logging record of all temperature sensors + setpoint
- Delayed start (Weekly timer)
- Standby temperature
- Logging of power consumption + visual overview
- Manual
- Electrical diagram
- Spare part list
- Notifications; for service/calibrations intervals etc.
- HMI in English and Swedish (Other languages upon on request)

Over heat protection: Siemens Fail-Safe PLC

Miscellaneous: Light tower (I/O Link, Balluff) for production disruption detection, light tower is placed on the electrical cabinet.

Red = Alarm
Green = Ready
White = In operation (0-100% indication of program sequence)

Power meter: Siemens PAC 3200. The Power meter display is placed in the front of the cabinet and connected to the PLC through Profinet.

Electrical cabinet: Electrical components are from leading suppliers that meet the European Safety Standards of high quality, performance, and modern technology.

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Example of start view:

Example of trend view:
Example of settings menu view:

Example of I/O view: