ST316
Kiln Temperature Programmer

FEATURES

- 9 programs—each with up to 9 segments
- 2 controlled heating / cooling ramps + soak per segment
- Suitable for ceramics or glass use
- Soak times up to nearly 100 hours
- Ramp rates from 1 to 999°C/hour + full
- Programs can be reviewed or altered while firing
- Program Pause & Segment Advance facilities
- Keyboard lockable
- Delayed start facility - up to 4 days
- Power failure recovery
- Energy used display
- Optional alarm/safety relay
- Power relay version available

DESCRIPTION

GENERAL The ST316 is a 9-program controller designed for pottery, ceramics & glass firing. Each program can have from 1 to 9 segments. It is fully adjustable with a detailed 6-lamp mimic display & continuous display of program & segment numbers. Each segment comprises 2 ramps followed by a soak. Ramps can be heating or cooling. It executes a controlled ramp to temperature t1 then it executes another controlled ramp to temperature t2. It soaks at t2 for the required period then executes the next segment. The end of the program is marked by selecting 'End' while entering a ramp rate. Natural cooling then follows.

SETTING UP Press the ➡ key to flash the program number display – this can be changed if required with the ⬆ & ⬇ keys. To change any of the controller's settings press the ➡ key (or reverse with the ⬅ key) until the required lamp on the mimic display flashes. The current value will be displayed together with the units (°C, °C/hr or hr.min). Change the displayed settings with the ⬆ & ⬇ keys which can be held down for acceleration. All settings are remembered while the controller is powered off. The keyboard can be locked to prevent tampering.

FIRING The START/STOP key is used to commence or halt a firing. The progress of the firing is shown on the mimic display. If a start delay has been set then the delay time remaining will be displayed. During firing the settings can be reviewed and altered if required, the program can be paused/resumed or a segment can be advanced. During soaking the soak time remaining and the soak temperature are alternately displayed. In the event of a power failure the controller will intelligently re-commence firing when power returns.