

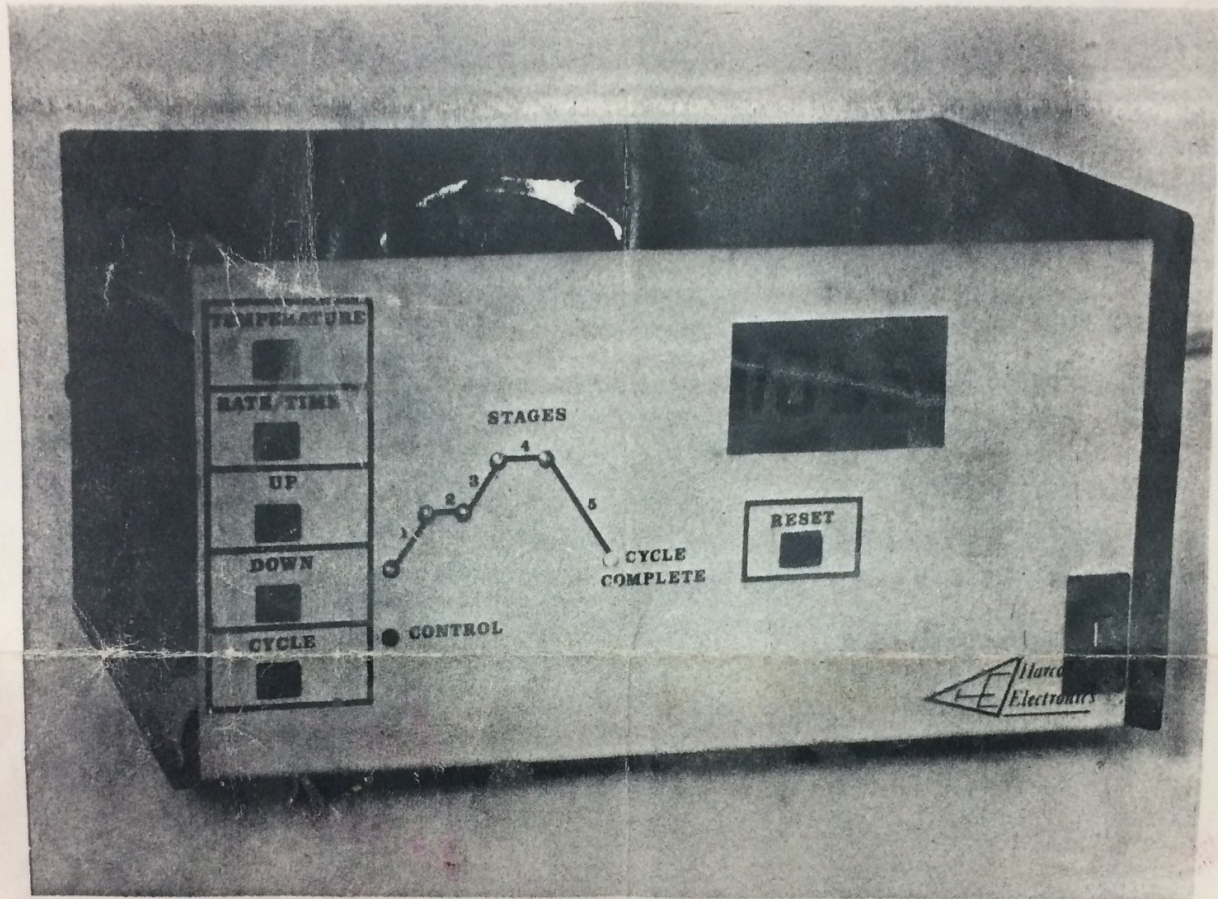
THE HE388 Programable Temperature Controller

MICROCOMPUTER BASED

5 STAGES

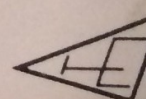
(1) UP (2) SOAK (3) UP (4) SOAK (5) DOWN

FULLY AUTOMATIC



MAIN FEATURES

- A large 0.5 inch (12.5mm) digital display for ease in set up procedure and reading kiln or furnace temperature.
- The stages are in the form of a graph to simplify interpretation of cycle position.
- A green light indicates the completion of a cycle when on alone (steady).
- A red light (control) indicates when the power is applied to the kiln or furnace.
- All settings are made with pushbuttons. (No knobs to be bumped).
- All settings are digital, therefore no drift occurs over a prolonged period of time.
- The thermocouple input is linearised to give maximum accuracy.
- Settings may be read or changed while the unit is running without interrupting the control cycle.
- The stage lights blink when setting up the unit or when reading the settings during a cycle.
- The stage lights are steady during normal cycle operation.
- Ambient temperature compensation is included.
- Mains filter protection is provided.
- The unit has 7 presettable programs which remain when unit turned off to remove the necessity to reprogram after each use.
- All programs are user settable and may be changed as required.
- An optional delay timer may be included so that the unit start up can be delayed up to approx. 33 hours.
- Two types of input are available: Chromel/Alumel Type K, Platinum/Rhodium Type R.
- A reverse graph unit is also available. Stages. (1) Up (2) Soak (3) Down (4) Soak (5) Down.

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THIS UNIT HAS BEEN CAREFULLY DESIGNED FOR:

Maximum reliability. Continuous safety checks. Ease of use. Automatic failure protection.

DURING OPERATION THE CONTROLLER:—

- (1) Checks for thermocouple failure. (Upscale burnout).
- (2) Checks that the thermocouple is in the kiln or furnace.
- (3) Checks for shorts in the thermocouple compensation lead.
- (4) Checks for failure of the relay and associated circuitry.
(This could cause a burnout).

In the event of any of the above conditions occurring, the controller will automatically enter an ALARM cycle, which blinks all stage lights and turns on a high pitched buzzer to alert the operator that a fault exists. The buzzer circuit may be connected to an external overriding relay circuit if required.

POWER FAILURE:

If power to the kiln or furnace is interrupted, the controller will enter the RESET cycle when power resumes.

This will keep power off the kiln or furnace preventing the possibility of overheating or burnout.

ORDERING INFORMATION.

Unit HE388

C = Chromel/Alumel Type K

or

P = Platinum/Rhodium Type R

L = Limit Setting (Ch/Al = 1300 Deg. C)

(Pl/Rh = 1400 Deg. C)

T = Timer

F = Flush or Pannel Mount.

Example: HE388CLT = Cr/Al input, Limit to 1300 deg. C setting, Include Timer. Bench unit not flush mount.

ADDITIONAL INFORMATION

The standard unit has:

2.5 meters of compensation lead.

2.0 meters of 4 core flex. (for power connection)

With PT59 4 pin socket.

(1) Active = BROWN

(2) Neutral = BLUE

(3) Ground = GREEN/YELLOW

(4) Switched active = BLACK

For connection to kiln or furnaces contactor (relay) coil.