



Midland Industrial Temperature Solutions Company

User Instructions

ST 3300 Temperature Programmer



Models

	3300-1	3300-2	3300-3	3300-4	3300-5
Display Ident	1	2	3	4	5
No of programs	1	10	10	10	10
No of segments	2	4	16	16	16
Event Output				1	1

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Starting the Firing

Stopping the Firing Manually

During the firing

- Pause
- Info Key
- Segment Advance
- Event override
- Slow Firing
- Keypad Lock

Advanced

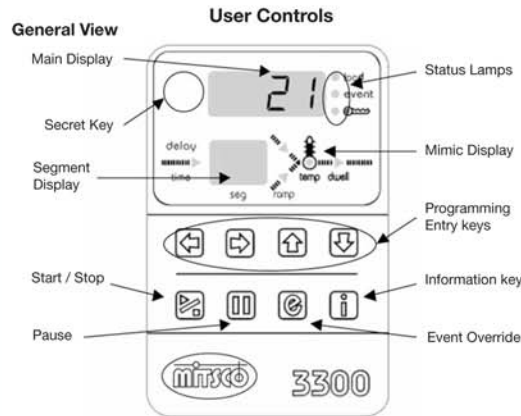
- Modifying a running program
- Event Programming
- Info Key
- Kiln Energy
- Power Fail
- 3 Zone Control (Option)
- Configuration

About this Manual

These instructions take you through the process step by step assuming you are using the controller for the first time. Basic operations are shown first and more complex operations are shown at the end

Installation

A separate manual is available showing how to connect the unit and configure for particular applications. If you purchase this unit from a kiln supplier they will normally have done this for you.



The controller is a highly adaptable unit which allows the user much greater flexibility in program entry than has previously been possible.

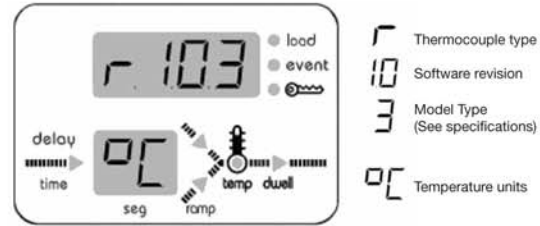
The user may freely create programs with segments consisting of either Up or Down Ramps and Dwells. Depending upon the model you may create up to ten programs each containing up to sixteen segments, where a segment is one ramp and one Dwell.

Additionally you can

- Create indefinite Dwells for holding firing.
- Create your program using either ramp rates or elapsed times.
- With the Event version trigger events at each segment

Switch On

The controller power switch is located below the unit. When the unit is first switched on, all of the segments on the display and all of the indicators are illuminated, as a lamp test. The displays then show information, which defines the particular instrument you have, for 3 seconds.



After 3 seconds the display will show the current kiln temperature. You may then Run or Amend a program.



Important

If you phone for technical support we will need to know the information displayed above. (01527 882553)

Switch Off

It is recommended that you ensure you have stopped the program (No mimic lights will be flashing) before switching off.

Note that if you switch off whilst the controller is running a program, the controller may start automatically when you switch on again.

Program Entry



To set a program you should first check that a program is not running. If there are flashing lamps on the mimic Press the Stop / Start key once to Stop

The key functions whilst entering a program are:-



Move forward and back through program segments



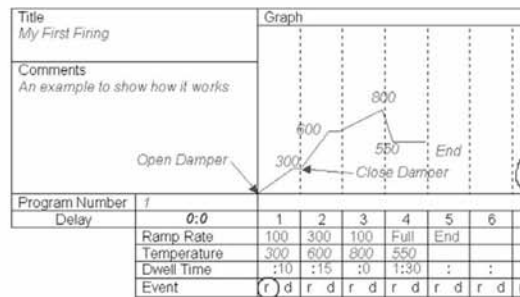
To change values for each segment



To Exit program mode and save the changes



To show the program number you are setting



The programming form provides a convenient way of ensuring you have all the information required to hand. It also provides a record of what you have programmed into the controller.

Delay

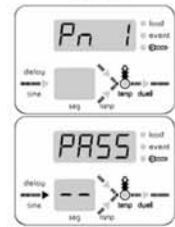
Pick the program number you wish to use and set the initial delay prior to the firing.

Action



Program No 1-10

Display



Values



- 1 only on 3300/1
- 1-4 on 3300/2
- 1-16 on 3300/3/4/5



Delay



- Pass (=0)
- 0.01 to 99.59 (HH.MM)

Segments

Enter the values for your firing as a sequence of segments (See the attached sample form.)

Action



1st Ramp Rate

Display



- 1 to 999 OC/Hour *
- Full (=Max)
- (0.01 to 99.59 HH.MM in time mode)



1st Temperature

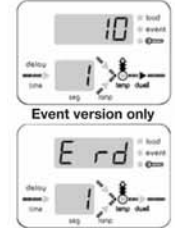


- 1 to Setpoint limit
- End (=0)

Enter the values for your firing as a sequence of segments (See the attached sample form.)



1st Dwell Time



- Pass (=0)
- 0.01 to 99.59 (HH.mm)
- Hold (=Max)

Event



1st Event sequence

- The Relay will be on in;-
- -- = Event Off
- or
- rd = Ramp & Dwell
- or
- -d = Dwell only
- or
- r- = Ramp only

For more detailed information on setting up events see later in this manual **Continue entering segment information until the firing profile has been completed**

End

Mark the end of a firing sequence (This example has four segments in the program and so five is marked as the end)

Action



Ramp Rate

Display



Values



- Press and hold until;-
- End

Exit Program



Caution

If you press this twice you will exit program mode and then run the program

