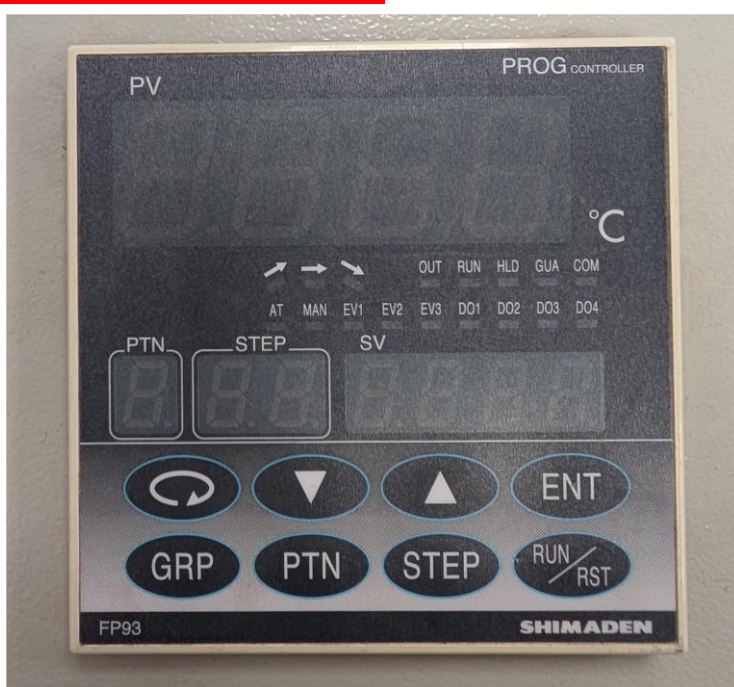


## SHIMADEN FP93 GENERAL INSTRUCTION MANUAL

(STEP BY STEP SOLUTIONS)

2025





## **TABLE OF CONTENT**

1. Program F – Full heat to temperature
2. Program 1 – Inputting a Program
3. Operating instructions once programmer is set



### **PROGRAM F – FULL HEAT TO TEMPERATURE**

This program does not have any set rates of increases or soak times; it only increases in temperature as fast as possible to the set maximum temperature.

Press PTN key until PTN F is displayed, then press ENT key to confirm selection.

#### **STEP 1**

Set temperature to your desired maximum temperature. (Use ↑ or ↓ keys to select)

Press the ENT key to confirm changes.

Press and hold RUN/RST for a few seconds until kiln turns on – the OUT light will light up and the RUN light will flash

Temperature read out shows the kiln temperature.

The furnace will hold at the set temperature until the operator manually turns it off.



### INPUTTING A PROGRAM

**Instructions for inputting a program into Pattern 1.**

**To input a program in to patterns 2-4, follow the same steps but for your desired pattern, rather than pattern 1.**

Press PTN key until PTN 1 is displayed, then press ENT key to confirm selection.

#### **STEP 1**

Press the GRP key.

Then press the STEP key to display PTN 1 STEP 1

Set temperature to **your desired temperature**. (Use ↑ or ↓ keys to select)

Press the ENT key to confirm changes.

Press the ↻ key – tCR displays on screen

Set duration of increase to **to desired ramp time in hours.mins** (Use ↑ or ↓ keys to select)

Press the ENT key to confirm changes.

For example, if you wanted to go to 100°C over 4 hours, you would have input **100** then pressed ↻ then input **04.00**.

#### **STEP 2**

Press the STEP key to display PTN 1 STEP 2

You can now set a soak or another ramp.

To set a soak, input the same temperature as above for the temperature value and set the length of time to how long you would like to soak for in the time value.

For example if you then wanted to soak at 100°C for 2 hours and 30 minutes, you would have input **100** then pressed ↻ then input **02.30**.

To set another ramp follow the same instructions as in **step 1**.

**Continue to follow the above steps to input more ramps/ soaks until you have run out of steps (max 7 steps).**

**To end a program, set both the temperature value and time value to 0 for remaining steps.**

Press GRP key until screen displays current kiln temperature, PTN number, STEP - -, SV 0.



## **OPERATING INSTRUCTIONS ONCE PROGRAMMER IS SET**

Power ON.

Programmer beeps then self-checks, and then displays kiln temperature plus last program used number + segment 1.

Press the PTN key to select a program to run. Dot point flashes until ENT key is pushed. This will not start the program.

To start the selected program, press and hold the RUN/RST key for a few seconds.

Step 1 appears – a light under a small arrow showing direction of heating lights up.

Program will run and when finished will go back into RST.

Press and hold RUN/RST button again for a few seconds to stop the firing.

**For further information, locate us at our website, [www.tetlow.com.au](http://www.tetlow.com.au)  
Do not hesitate to contact us at Tetlow Kilns and Furnaces at 03 8545 8296 or  
[info@tetlow.com.au](mailto:info@tetlow.com.au)**