

HP 5890 SERIES II Quick Reference

Oven Temp Programming

1 ramp

OVEN TEM **INIT VALUE** **9** **0** **ENTER** Sets initial temp to 90.

INIT TIME **1** **ENTER** Sets initial time to 1 min.

RATE **5** **ENTER** Sets rate to 5 degrees/min.

FINAL VAL **1** **5** **0** **ENTER** Sets final temp to 150.

FINAL TIME **1** **ENTER** Sets final time to 1 min.

Multiramp

Input ramp 1 as above and then:

RATE **A** **5** **ENTER** Sets 2nd rate to 5 degrees/min.

FINAL VAL **2** **0** **0** **ENTER** Sets 2nd final temp to 200.

FINAL TIME **2** **ENTER** Sets 2nd final time to 2 min.

Isothermal

RATE **0** **ENTER**

For isothermal run without deleting entire program.

Detector Control

DET **A** Displays status of detector. **ON** / **OFF** Controls status.

DET **A** **-** Inverts polarity of TCD signal A prior to run.

DET **A** **-** **TIME** **1** **ENTER**

Inverts polarity of TCD signal A at 1 min.

DET A TEMP **2** **5** **0** **ENTER** Sets detector temp to 250.

TCD SENS **A** **ON** Changes TCD sensitivity to high.

ON = High sensitivity **OFF** = Low sensitivity

TABLE **ADD** **TCD SENS** **A** **ON** **TIME** **2** **ENTER**

Changes TCD sensitivity from low to high at 2 min and adds to timetable.

Split/Splitless Operation

Split

PURGE / VALVE **A** **ON** Turns purge A on.

Inlet flow = column flow + split flow.

PURGE / VALVE **A** **TIME** **ON** **0** **ENTER** Verifies that timetable is off.

PURGE / VALVE **A** **TIME** **OFF** **0** **ENTER**

Splitless

PURGE / VALVE **A** **TIME** **OFF** **0** **ENTER**

Sets timetable for purge off at 0 min.

PURGE / VALVE **A** **TIME** **ON** **1** **5** **ENTER**

Sets timetable for purge on at 1.5 min.

(Valves do not automatically return to original state at end of run.)

Signal Assignments

SIG 1 **A** **ENTER** Outputs response from detector A.

SIG 1 **A** **-** **B** **ENTER** Outputs difference of A and B.

TABLE **ADD** **SIG 1** **ON** **TIME** **1** **ENTER**

Switches signals during run at time 1.

Signal Zeroing

SIG 1 **ZERO** **5** **0** **ENTER** Sets zero to 50.

SIG 1 **ZERO** **ON** Subtracts offset value from signal.

SIG 1 **ZERO** **OFF** Offsets stored but not subtracted from signal.

SIG 1 **ZERO** **ENTER** Zero baseline.

Ready/Not Ready

CLEAR **CLEAR** ... Scrolls through ready status.

Inlet Pressure Programming

Pressure Program Mode

INJ B PRES INIT VALUE 1 2 ENTER

Sets initial inlet B pressure to 12.

INIT TIME 1 ENTER Sets initial time to 1 min.

RATE 5 ENTER Sets rate to 5 psi/min.

FINAL VALUE 2 5 ENTER Sets final pressure to 25.

FINAL TIME 1 ENTER Sets final time to 1 min.

Note: If the pressure program is shorter than the oven temperature program, constant flow mode automatically turns on at the end of the pressure program.

Constant Mass Flow Mode

FLOW PARAM FLOW PARAM .. Selects gas type display.

1 = He, 2 = N₂, 3 = H₂, 4 = Ar/Me

FLOW PARAM Selects constant flow display.

ON / OFF Controls status.

INJ B PRES 1 2 ENTER Sets initial pressure.

(Be sure oven is equilibrated at initial temperature.)

Setting Average Linear Velocity

Note: Before setting average linear velocity, the correct column parameters (column length, column diameter, and gas type) must be entered.

CLEAR FLOW FLOW Scroll to Column B Cm/Sec.

1 0 0 ENTER Sets inlet B linear velocity to 100 cm/sec.

Selecting Pressure Units

To change the units, press 1 ENTER and then select

1 = psi,

2 = bar, or

3 = kPa.

Setting Mass Flow Rate

Note: Before setting mass flow, the correct column parameters (corrected column length, column diameter, and gas type) must be entered.

FLOW PARAM FLOW PARAM Scroll to select gas type.

FLOW PARAM Scroll to Column Dia.

. 5 3 0 ENTER Sets the column diameter to .530 mm.

Column length must be entered in meters. If *exact* column length is unknown or if a packed column is in use, refer to the Operating Manual.

FLOW PARAM Scroll to Column Len.

2 5 ENTER Sets the column length to 25 meters.

CLEAR FLOW Scroll to Mass Flow display.

1 0 ENTER Sets inlet B flow to 10 ml/min.

Operating EPC

INJ A PRES 2 5 ENTER

Sets inlet channel A pressure to 25.

INJ B PRES 2 5 ENTER

Sets inlet channel B pressure to 25.

B 2 5 ENTER

Sets auxiliary channel C pressure to 25.

C 2 5 ENTER

Sets auxiliary channel D pressure to 25.

COL COMP1 2 5 ENTER

Sets auxiliary channel E pressure to 25.

COL COMP2 2 5 ENTER

Sets auxiliary channel F pressure to 25.

Using Vacuum Compensation Mode

FLOW PARAM FLOW PARAM Scroll to select EPP B Vac Comp.

ON / OFF Controls status.

Inlet Temperature Programming

Temperature Program Mode

INJ B TEMP **INIT VALUE** **9** **0** **ENTER** Sets initial inlet B temp to 90.

INIT TIME **1** **ENTER** Sets initial time to 1 min.

RATE **5** **ENTER** Sets rate to 5 degrees/min.

FINAL VALUE **1** **5** **0** **ENTER** Sets final temp to 150.

FINAL TIME **1** **ENTER** Sets final time to 1 min.

Oven Track Mode

INJ B TEMP **OVEN TRACK** **ON** Turns final time to 1 min.

Valve Programming

TABLE **ADD** **PURGE / VALVE** **1** **ON** **TIME** **2** **ENTER**

Turns on valve 1 at 2 min and adds to timetable.

TABLE **NEXT** / **PREVIOUS** ... Scrolls to the desired timetable entry.

DELETE **ENTER** Deleted timetable entry.

(Valves automatically return to original state at end of run.)

Column Compensation

COL COMP1 **A** **ENTER** Initiates compensation for detector A.

COL COMP1 **▪** **ENTER** Initiates simultaneous compensation for the indicated detectors.

SIG 1 **A** **—** **COL COMP1** Applies compensated signal to the indicated detectors.

Cryogenic Control

CRYO PARAM CRYO PARAM CRYO PARAM ...

Scrolls through cryogenic options.

CRYO ON is for subambient runs.

CRYO BLAST ON is for very fast cooling between runs.

Stopwatch

TIME TIME TIME During a run: scrolls through elapsed time, remaining time, and stopwatch. In standby: scrolls through last run time, next run time, and stopwatch.

ENTER Starts/Stops stopwatch CLEAR Resets stopwatch

Zeroing Pressure

INJ B PRES 0 . 0 ENTER

Set inlet B pressure to 0.0.

3 ENTER *value* ENTER

where *value* is the zero offset value shown on the GC display labeled ACTUAL.

Using Vacuum Compensation Mode

FLOW PARAM FLOW PARAM Scroll to select EPP B Vac Comp.

ON / OFF Controls status.



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