

Enabling the Pressure program on the SRI 8610C GC

The A/D board is mounted along the inside right side of SRI 8610C, 310C and 410 GCs.

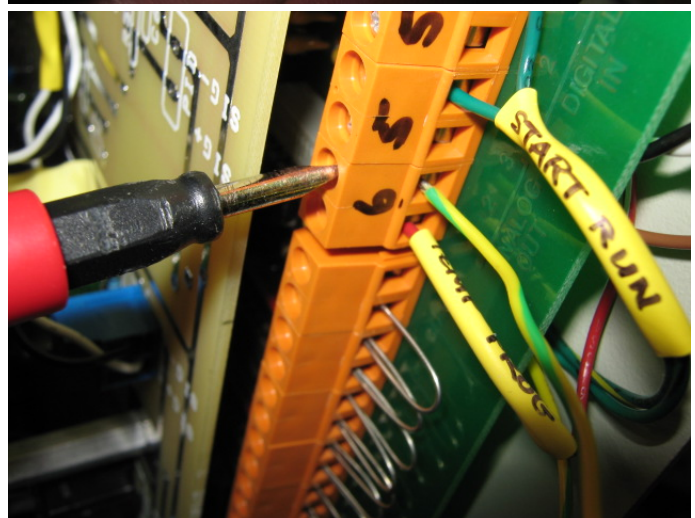
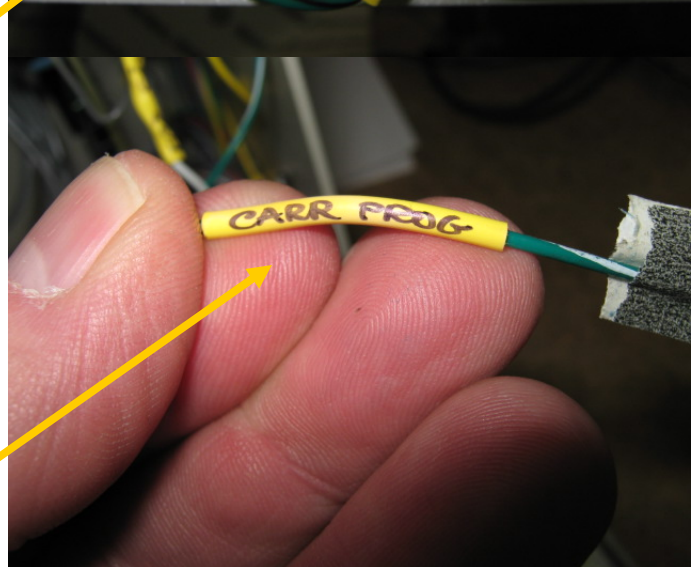
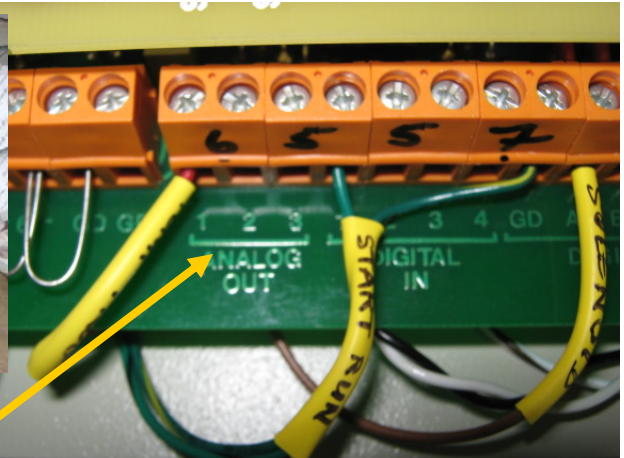


The A/D board is labeled Analog Out 1,2 and 3 if your A/D board is a model 302 6 channel USB type. The 302 board has 3 analog outputs. Analog output #1 is used to control the oven temperature program. Analog outputs #2 and 3 are normally left unconnected to anything.

All other A/D boards (model 333, model 202 and model 203) are labeled TP1 (temperature program one) or TP2 (temperature program two). These board only have two analog outputs.

Locate the wire which is labeled Carr Prog (carrier program). This wire will be tucked under the A/D board and insulated with a piece of colored tape.

Connect the Carr Prog wire to Analog output #2 (or TP2) to enable the program in PeakSimple's Channel Two to control the carrier gas pressure. If you prefer, you can connect to Analog output #3 in which case the program in PeakSimple's channel 3 would control the carrier gas pressure.



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Set the "Control By" radio button in PeakSimple's Channel Two details screen to "Pressure".

Channel 2 details

Description: End time: min

Sample rate: 1 Hz 2 Hz 5 Hz 10 Hz 20 Hz 50 Hz

Default display limits: Max: mV Min: mV

Remote start

Timebase: 1 2 3 4

Control by: Temperature Pressure Gradient

Subtract baseline in channel:

Overlay data in channel:

Relative retention shifts are based at: min

Unretained solute time: min

Reverse polarity Absorbance mode

Multiply norm area % results by:

Datalogger mode: On

Offset:

Gain:

Use calibration from component:

Decimal places:

Channels

Channel	Active	Details	Temperature	Events
Channel 1: HD Channel 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel 2: FID CHANNEL 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Channel 3: Channel 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel 4: Channel 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel 5: Channel 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel 6: Channel 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Exit the Channels menu and then re-enter. You will see that the Channel 2 Temperature button is now labeled Pressure

Enter a pressure program which is appropriate for your analysis.

Channel 2 pressure control

C:\peak388-32bit\Vertical.flo

Init PSI	Hold	Ramp	Final PSI
10.00	1.000	1.000	20.00

Graph showing pressure (PSI) vs. time (min). The pressure starts at 10.00 PSI, holds for 1.000 min, ramps up to 20.00 PSI, and continues to rise to 21.00 PSI at 11.000 min.

Buttons: Add... Change... Remove Load... Save... Clear Print OK

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Using a screwdriver adjust the Carrier Local Setpoint to 000. The Total Setpoint will now display whatever Channel Two pressure program is set to.

The Total Setpoint is the sum of the local setpoint (the screwdriver setpoint) and the remote setpoint (the setpoint from PeakSimple).

If the local setpoint is set to something other than 000 it will add to the Total Setpoint. So if the local setpoint was 5 and the remote setpoint was 5, the Total Setpoint would read 10.

When the GC is first turned on and before PeakSimple establishes communication, or if Channel Two is not activated the remote setpoint defaults to 45psi.

