



Installation Instructions


Interface Cable Part Number 14-4830-086

Interfacing Two Tekmar™ 2000s/7000s/3000s/6000s/Velocity XPT to a Hewlett-Packard 5890 GC

This interface allows two Tekmar units to operate automatically with your Hewlett-Packard instruments. It allows the gas chromatograph (GC) to send a READY signal to the Tekmar units. Also, it enables the Tekmar units to start the GC and data system upon sample transfer or injection.

For the interface to work properly, the switches on the 2000/7000 input/output (I/O) board need to be set as shown in the diagram included with these instructions. You do **not** need to set switches for the 3000 or 6000; you set up the interface through software. See the following instructions for your particular unit.

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|  | WARNING |  |
| Electrical shock hazard inside. Unplug power cord before removing panels. | | |

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|  | CAUTION |
| Circuit board components can be damaged by static discharge. Avoid touching the components unless otherwise noted. | |

Connection to the 2000

1. To access and set the switches:
 - a. Locate the input/output (I/O) board. It has two connectors extending out of its bracket, which can be accessed at the rear of the 2000. (See the photograph in Section 12 of your Purge and Trap Concentrator User Manual.)
 - b. Loosen the two screws that hold the I/O board and slide it out until you see the switches labeled "U012" and "U013".
 - c. Set the switches according to the diagram included with these instructions. (The switches are in the OPEN position when they are pressed **down** at the "OPEN" label.)
 - d. Return the I/O board to its original place, being careful to properly seat it into its connector.
2. Plug the cable into the I/O board. See the illustration included with these instructions.
3. Repeat Steps 1 and 2 for the second 2000.

Connection to the 7000

1. To access and set the switches:
 - a. Loosen the two 1/4-turn fasteners on the lower left side panel.
 - b. To remove the panel, pull it **away** from the unit to release the retaining clips from the posts in the chassis, then toward the **front** of the unit to release it from the locating pins (on the rear of the unit).
 - c. There are three sets of four DIP switches on the edge of the board. They are labeled BIAS, OUTPUT and INPUT. Set the switches according to the diagram included with these instructions. (Flip the switches up to put them in the OPEN position.)
 - d. Reinstall the left side panel by pressing it back onto the locating pins and inserting the retaining clips into the posts in the chassis.

Two 2000s/7000s/3000s/6000s/Velocity XPT to an HP 5890 GC

Connection to the 7000 (continued)

- e. Secure the panel with the two 1/4-turn fasteners.
2. The I/O board has two connectors extending out of its bracket, which can be accessed at the rear of the 7000. Plug the cable into the I/O board. See the illustration included with these instructions.
3. Repeat Steps 1 and 2 for the second 7000.

Connection to the 3000 , 6000 .Velocity XPT

1. Turn off the Tekmar unit.
2. Locate the interface board in the Tekmar unit. The board has two connectors extending out of its bracket. These connectors can be accessed at the rear of the Tekmar unit.
3. Plug the cable into the interface board. See the illustration included with these instructions.
4. Repeat Steps 1 through 3 for the second 3000 or 6000.

Specifying the GC Port (3000 , 6000, Velocity XPT only)

1. Turn on the Tekmar unit.
2. At the System Error/System Reset Screen, press the ENTER key.
3. Allow the system to run through the automatic self-test.
4. At the Standby Screen, press the CONF key. The Configuration Screen appears on the display.
5. At the Configuration Screen, press A (GC I/O Port). The GC Port Screen appears on the display.
6. Choose the GC Port. You have two choices: *Standard* or *User*. Choose **Standard**. Press any numeric key to cause the display to toggle from one choice to another. Press ENTER to save your selection.
7. Turn off the Tekmar unit.
8. Repeat Steps 1 through 7 for the second 3000 or 6000.

Connection to the GC

1. Remove the right top instrument cover on the GC.
2. Plug the 12-pin connector into the receptacle labeled REMOTE.
3. Coil the cable partially around the strain relief posts and route it out the rear of the GC.
4. Replace the cover.

Connection to a Peripheral Device (Data System)

This interface has a two-wire cable that is used to start a peripheral device. Refer to your peripheral device manual for the location of the terminals to which these wires attach.

Note: When using Chemstation, this two-wire cable is not used.

1. Connect the black wire to the ground, common or negative terminal.
2. Connect the remaining wire to the other terminal.
3. If you are not using this cable, insulate the bare wires with electrical tape or cut them off to keep them from touching each other.

