




Installation Instructions

Interface Part Number 14-4610-086

Interfacing a Tekmar™ 2000/7000/3000/6000/Velocity XPT to a Shimadzu GC 14A/15A/17A

This interface allows the Tekmar unit to operate automatically with the Shimadzu GC 14A/15A/17A. It allows the GC to send a READY signal to the Tekmar unit. Also, it enables the Tekmar unit to start the GC upon sample injection.

In order 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 3000,6000, or Velocity XPT; you set up the interface through software. Follow the steps below for your particular unit.

 WARNING 
<p>Electrical shock hazard inside. Unplug power cord before removing panels.</p>
 CAUTION
<p>Circuit board components can be damaged by static discharge. Avoid touching the components unless otherwise noted.</p>

Connection to the LSC 2000

1. To access and set the switches:
 - a. Locate the I/O board. It has two connectors extending out of its bracket, which can be accessed at the rear of the LSC 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 25-pin connector into the I/O board.

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.)

LSC 2000/7000/3000/6000/Velocity XPT to a Shimadzu GC 14A/15A/17A (continued)

Connection to the 7000 (continued)

- 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.
- 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 25-pin connector into the I/O board.

Connection to the 3000,6000, Velocity XPT

1. Turn off the Tekmar unit.
2. Locate the interface board. It has two connectors extending out of its bracket. These connectors can be accessed at the rear of the Tekmar unit.
3. Plug the 25-pin connector into the matching connector on the interface board.

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

1. Turn on the Tekmar unit.
2. At the System Error/System Reset Screen, press ENTER.
3. Allow the system to run through the automatic self-test.
4. At the Standby Screen, press the CONF key. The Configuration Screen will appear on the display.

Note: For assistance in understanding the next two steps, refer to the manual shipped with the 3000/6000/Velocity XPT. You do not have to refer to the 3000/6000/Velocity XPT manual to finish installing the interface.

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 can choose one of the following: *Standard* or *User*. Choose **User**. Press any numeric key to cause the display to toggle from one choice to another. Press ENTER to save your selection.
7. Since you have chosen User, you must specify a *User GC Type Number*. At the GC Port Screen, press the NEXT PAGE key. The *Special GC Type* Screen will appear on the display. Specify **31** for the User GC Type Number by pressing the appropriate numeric keys. Press ENTER to save the entry.
8. Turn off the Tekmar unit.

Connection to the GC

Plug the 8-pin end of the Tekmar cable into the Shimadzu cable (P/N 221-34280-91).



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